



Catalogue | 2014

Mylos, Élos, Chiara Wiring accessories and Home Automation

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Mylos, Élos, Chiara

Wiring accessories and Home Automation solutions

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ABB SACE Division: certified ethical and environmental quality

1

Using analysis tools such as LCA (Life Cycle Analysis), the design activity of ABB SACE Division includes, from the earliest stages, assessment and improvement of the environmental performance of the entire life cycle of products. This guarantees optimization of technical and energy performance at the operational stage, control and reduction of environmental impact during production and end of life management.

ABB SACE, a division of ABB S.p.A., is at the forefront in dedicating significant resources to achieve the objectives of quality, safety for workers and environmental protection. This is demonstrated by the fact that all the company production sites have achieved ISO 9001 quality, OHSAS 18001 Health and Safety and ISO 14001 environmental certification.

In striving for the excellence that distinguishes it, the company has also implemented IRIS and SA8000 certifications in some manufacturing sites. These are standards of the highest importance in the area of quality and corporate social responsibility.

IRIS is a specific standard for the rail industry developed by UNIFE, the Association of European Railway Industries, which provides a shared and common system for assessment and certification of quality of companies that supply products requiring higher levels of quality (relating to rolling stock and signalling). It was developed from the ISO 9001 standard, adapting and supplementing it with the specific needs of operators in the railway sector, as had previously been done in other areas such as the aerospace and automotive sectors. SA8000 is the most widespread and internationally recognized standard that guarantees that a company is socially responsible and committed to respect for ethics throughout the production cycle and in working conditions.



ABB: Energy efficiency for sustainable progress

ABB is actively engaged in promoting environmental protection and sustainable development by providing products and solutions that contribute to improving energy efficiency and plant productivity, while reducing CO₂ emissions.

ABB SACE web site: facilitates work, develops business

- **Catalogs** to view, download and request publications on the huge range of ABB SACE products
- **Technical documentation** to check wiring diagrams, dimensional drawings, instruction sheets and installation manuals
- **Work tools** for totally safe design
- **Training** to browse the catalog of training courses and register online
- **News** to keep up to date with the latest news from ABB SACE



<http://www.abb.it/wiringaccessories>
ABB is the new website dedicated to products for residential and service sector installation, providing quick and easy access to all the documentation and information.

<http://www.abb.it/lowvoltage>
is the site that keeps you informed about ABB low voltage electrical installations and industrial automation.

Calculation and budgeting tools Technical software

DOC 2

DOC 2 is a program for designing and calculating single-line diagrams of low and medium voltage electrical installations, for selecting switching and protection devices, and for checking and coordinating protection devices.

With the drawing functionality provided by the integrated CAD, the new panel configurator module makes it possible to develop designs for ABB electrical panels and to produce a technical/commercial quotation with CAT.

CAT 7

This is the tool that allows you to easily select and accessorize ABB SACE products in order to prepare quotes and offers quickly and without errors.

With CAT 7, choosing and accessorizing ABB SACE products is easier and faster, thanks to the new product selection screen and the new accessorizing module.

Curves

Curves is the quickest program for checking the tripping characteristics of protection devices and the components of the installation.

Setting, checking, and documenting settings for releases and coordination is even easier than in the past.

OTC

The OTC module for thermal calculation allows you to check the thermal behavior of ABB switchgear and to size the fans and air conditioners to be installed in the switchgear.



"DOC & CAT" is the collection of technical software that helps you to produce designs and quotations easily, rapidly and completely.
The entire software collection can be downloaded for free from the online Business portal. ABB Software Desktop is a platform created to allow the installation and operation of the above software.
With its automatic update notification service, ABB Software Desktop is able to detect which programs are installed on the PC, allowing them to be updated.

Mylos, Élos and Chiara amaze with their materials, designs and colours. Three wiring accessories ranges to meet all expectations in an original and unique way.

The possible combinations are limitless, according to individual taste and imagination: the same type of frame as a unifying thread in all the areas of your home or office, or many different frames to enhance each individual environment.

Mylos
Frame with Metal finish



Mylos
Frame with Lucent finish



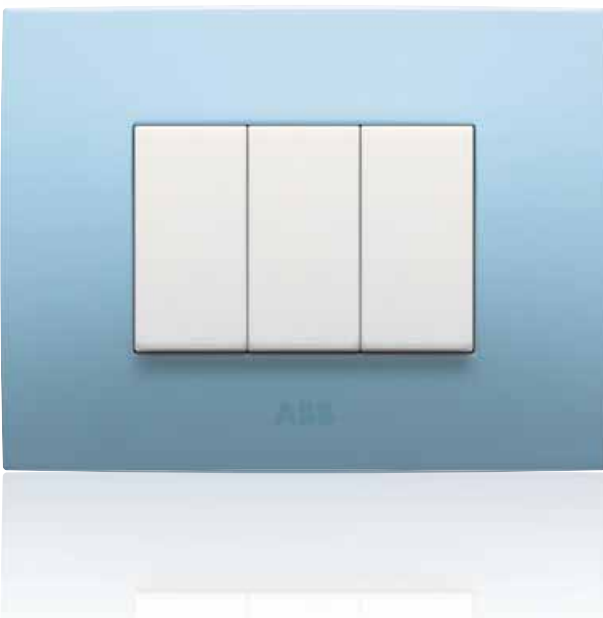
Élos Soft
Metal frame



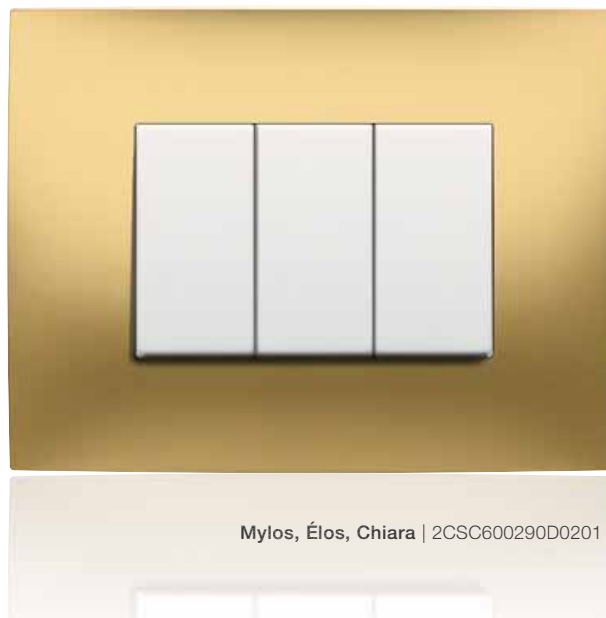
Élos Smart
Technopolymer frame



Chiara
Technopolymer frame



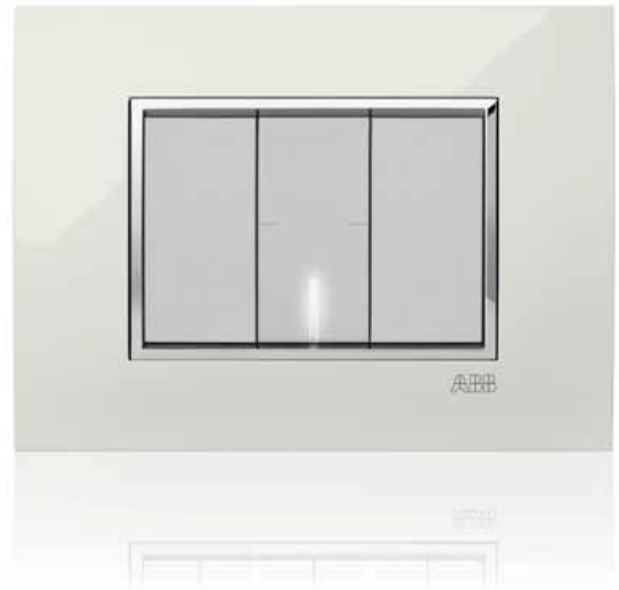
Chiara
Metallic frame with satin finish



Mylos

The beauty of seeing, touching, living

1



Your house is your world. And your world reflects you. If you are looking for timeless design and quality materials, Mylos is the best way to express yourself. Even in the smallest details, functionality marries with appeal. And makes your house your home.

Perfection is in the details. Mylos are so well thought out as to make them fundamental: the LED-lit switches, incredibly thin frames and their velvet-like surface. Details which, together, create a special effect every time.

Ultra-thin Square and Round frames: fitting in with everything, everywhere.

When design is the perfect synthesis of style and functionality, it fits in harmoniously with any environment. Mylos wiring accessories' frames have been designed to satisfy exactly this requirement: clean, non-invasive lines which create perfect continuity in any place in any home.

Two shapes have been chosen for Mylos, "square" and "round", allowing you to choose on the basis of your needs. The square frame has firm, minimalist lines, ideal for any environment. The round frame is more characterful and less technical, fitting in well with more particular environments.



Mylos

Materials, designs, colours

1

Mylos finishes best represent current trends in interior design. Four different materials, two different designs, infinite combinations to choose from to synchronise your environment with your desires.



Crystal finishes.

Glass has no equal in terms of luxury. It can be elegant and sober at the same time, with great purity of form and substance. The two finishes, satin white and satin black, have been chosen to fit in with the most elegant environments, lending them a style which is refined yet never excessive.



Metal finishes.

The most prestigious, elegant and resistant. Metal is the material which invokes sensations of refinement and prestige, emphasising purity thanks to nuances ranging from silver to gold, encompassing aluminium, titanium and chrome. With natural satin, brushed or glossy finishes.



Velvet finishes.

Polymer technology generates an innovative finish. The Velvet series creates a soft, velvet-like touch, offering an original multisensory experience. “Pure White” stands out among the velvet finishes, integrating the frame, the trim and the switches in a single colour. An absolutely minimalist design which “disappears” into the wall.



Lucent finishes.

Made from special resins, the Lucent series’ glossy tones stand out in any environment, reminding you of elements such as alabaster and ice, adding a technological touch which is perfect to complete particularly hi-tech environments.

Home or building automation,
the solution is always Mylos.

1



A simple and immediate system to best meet the needs of residential contexts, or a professional system able to communicate with any platform.

When you use Mylos in a project, connections between devices are always performed logically. This means that each component, even those which perform the simplest functions (such as switches for example), is able to receive and transmit signals over the bus.

The information runs through the system and is read only by the devices which it is addressed to.

It is for exactly this reason that each sensor or actuator device can be connected to the bus without a particular order: the function will be defined through programming.

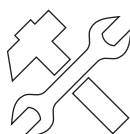


» Home automation

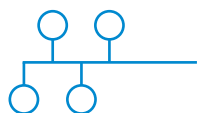
- » Intuitive programming with



- » Up to 64 devices on a single system to meet all residential needs



- » BUS cabling



» Building automation

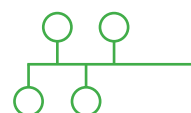
- » Maximum programming flexibility with



- » Customisation of all parameters and expandability for projects of all complexity levels



- » KNX BUS cabling



Mylos: your house is now tailor made.

With Mylos, programming is performed via the time-programmable thermostat or touch panel, which can manage up to 64 devices. It will be the programming device to define functions and connections by means of a simple guided menu. The device functions are changed by modifying the configuration without physically working on the system, which thus becomes extremely simple to update or modify.

Mylos allows your home to be automated: for example, switching on lights at a predetermined time in the evening, heating up the towel rail for bath time, lowering shutters in the evening and raising them in the morning, or creating different lighting for different occasions.

Mylos KNX: the only limit is not having limits.

Offices, apartment blocks, sports centres, shopping malls. There are many and various situations where design requirements are complicated and it has to be possible to make modifications and change the positioning of devices over time (open-space offices, cubicles or other partitioned spaces etc.). With ABB it is possible to program Mylos KNX flush-mounted devices together with DIN-rail KNX devices, in order to completely manage the building automation project, no matter how complex.

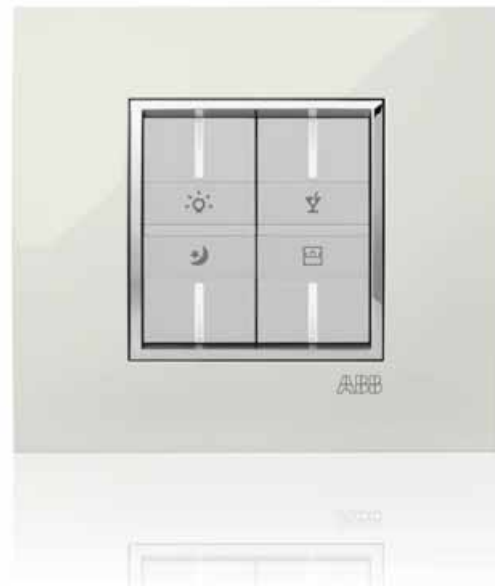
A system designed with KNX maintains the property value over time, as it never ages or becomes obsolete. Moreover, even if the destination of a part or an entire complex changes, it is not necessary to redo the system: it simply needs reprogramming.

Mylos Home Automation

Easy Home automation

1

An easy and immediate way to respond in a better way to the civil engineering's needs.



Systems with bus technology have become more popular in residential applications over the last few years, thanks to their ease of installation, flexibility and integration of multiple functions according to the users choices and needs. ABB has based the Mylos integrated system on this technology, able to control and command all electrical devices in the home, providing total comfort as well as energy savings and increased security.

A system conceived in this manner doesn't risk to become obsolete because it is always upgradeable and programmable. In this way is possible also to value the property. Mylos, ABB's last generation integrated system, offers all the knoweledge, the experience and the technical competence of a market leader with a design that is able to conquer the most demanding customer.

With Mylos, home automation is within the reach of everyone. Because its purpose is to make life easier both for those who decide to create a system in their home and for the installers.

Mylos Touch

Environments are activated with a simple touch.



A system that only has advantages.

- It reduces design, installation and wiring costs.
- It allows you to expand and modify the installation at every stage of its life cycle, ensuring a secure and profitable investment over time.
- It allows the integration of new functions at any time.
- It offers intelligent management of the home in order to reduce energy consumption (for example, management of lighting and heating depending on whether or not rooms are occupied).
- It simplifies programming of devices for the installer and the management of the house for the user.
- It maximizes the comfort and security of residents.

Whatever the requirement, with Mylos the answer is simple. A complete installation interfaced with a Domustech safety and security system provides:

Lighting management



Heat regulation



Automation of roller shutters



Load management



Scenario management



Safety and Security integration



For programming the system, a time-programmed thermostat or, alternatively, Mylos Touch needs to be installed. However, once the devices are configured, they do not require a central unit in order to operate, and therefore the time-programmed thermostat can even be removed from the system once programming is completed.

Principles to follow:

- input channels must be associated to only one group;
- each actuator can be included in a maximum of 4 different groups;
- input devices can belong to any type of group;
- conventional dimmers and actuators can be part of the same group;
- roller shutter actuators are placed in groups only with other shutter actuators or input devices;
- up to 84 groups can be configured.

Élos

The perfect combination of aesthetics and functionality

1



Élos Soft line



Élos Smart line

Élos is the wiring accessories' range ideal for implementing the terminal parts of the electrical installation in both residential and commercial applications.

The availability of two lines, Élos Soft and Élos Smart, means you can also choose: two solutions to suit all tastes, even the most refined and particular.

Élos Soft and Élos Smart were created to set a turning point, to create a new sign with a sleek design and the use of exclusive and innovative materials.

The Élos series includes a full range of devices that can be used to optimize management of electrical loads and extend the functions available in the various areas of the home, office, shops etc.

The control devices and finishing frames are available in two specifically designed versions that allow the two lines Élos Soft and Élos Smart to be distinguished visually.



Élos Soft

Materials, designs, colours

1

Élos design wasn't left to chance . Creativity and industrial design have produced two lines with precise connotations. The Élos Soft frames have the refined and sinuous profile of a wave that gives personality and importance to an environment. The buttons are crossed by a vertical mark, recognizable to touch, while the soft glow of blue LEDs allows you to see them even in the dark or in dim light.



The materials and finishes such as metal, technopolymer or glass, with glossy or satin finishes, have been carefully selected to complement different styles of furniture. The frames are available in the colours of nature and its four elements, available in 24 variants for metal versions,

17 for the technopolymer versions and 6 for those made of glass, with finishes and materials carefully selected to match the various styles of furnishing and to maximize your customisation options.

Élos Smart

Materials, designs, colours

One solution, many combinations. Élos Smart multiplies your choice.

1

For the commercial contexts and more tailored residential solutions, Élos Smart offers wide possibilities for choice and implementation of specific functions with components in the range and with frames in 3, 4, 6, 8 and 12 module versions, all made from technopolymer with a satin finish.

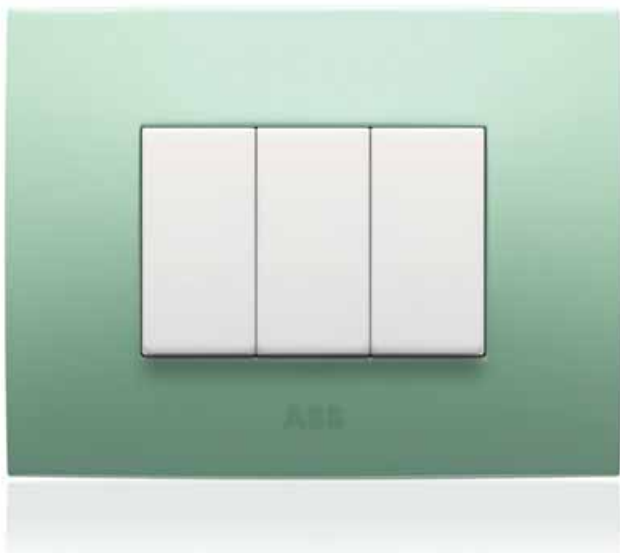
The product range features, various types of electrical, television/satellite and telephone/EDP sockets; switches can be identified by key covers with special symbols (door opener, doorbell, lamp, table lamp, stair light, etc.) and by warning lights available in different colours.



Chiara

Simplicity becomes harmony

1



Chiara, as the name implies, means light and purity. The elegance of the white switches and devices goes well with the evocative colours of the frames: white, sand, stone, volcano, metallic and pastel shades.

The design of Chiara expresses the best of Italian creativity combined with the excellence of ABB's technological and production processes. Chiara is designed to suit everyone's taste and enhances any environment, from the most refined

to the most essential, with a choice of components that allow you to implement a number of solutions in residential and commercial contexts.



Chiara

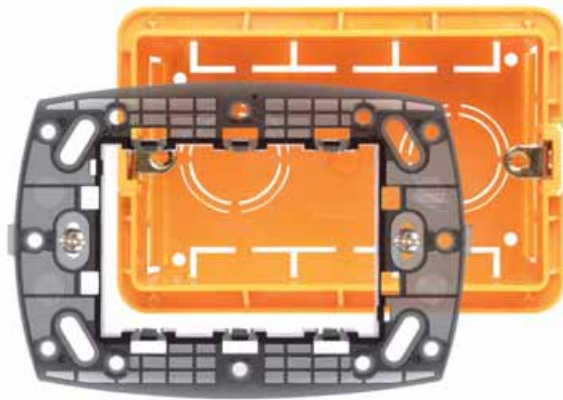
The ideal choice if you are looking for practicality

1

Chiara is the easiest and most immediate response to all your needs. The breadth of its product range and completeness of the solutions offer the greatest choice.

From the point of view of the installation, flexibility is a feature of Chiara.

The devices, with a width of 22 mm, are suitable for insertion in all the round flush-mounted boxes with a diameter of 60 mm and rectangular boxes on the market; the supports and frames are available in 2, 3, 4 and 7 module versions that can be mounted in rectangular boxes with 2, 3, 4 and 6 standard modules respectively.



The composition of the devices is particularly simple: the support is made from semi-transparent plastic material for easy mounting in the flush-mounted boxes. In addition, the assembly of the devices is frontal, except for the IP40 and IP55 wall-mounted enclosures and the IP55 flush-mounted escutcheon frames.



With Chiara comfort is saving: time-programmed thermostats and thermostats, daily/weekly electronic programmers and dimmers improve the quality of living and reduce energy waste.

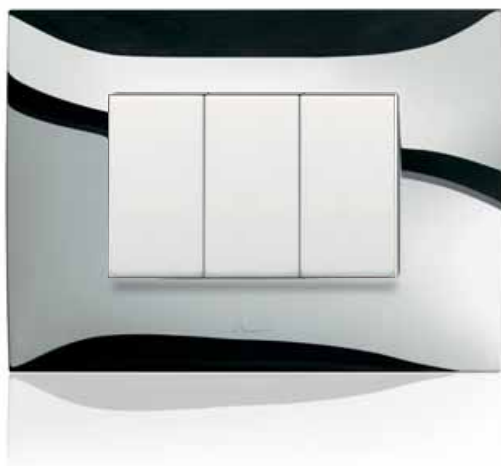
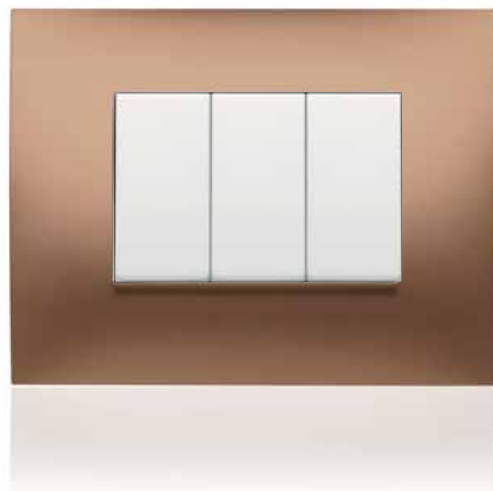
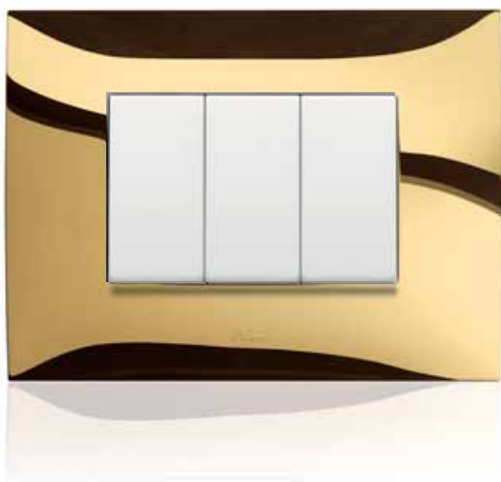


Chiara

Materials, designs, colours

The glossy finish of the metal enhances the simplicity of the shape. A harmonious combination generates reflections of rare purity and beauty. You will be amazed by the intensity of the glossy finish or the shimmer of the satin finish: the 4 metal colours, Gold, Bronze, Chrome and Metal Black stand out with their simplicity and elegance.

1



Mylos, Élos and Chiara: ABB wiring accessories

Lighting and design

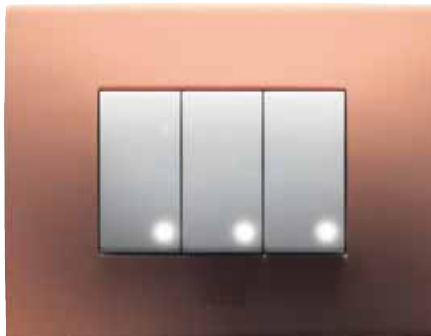
1

Whether you are guided by the purity and beauty of Chiara, the elegant design of Élos, or the velvet-like touch of Mylos, a gesture as simple as turning on the light will be transformed into a new sensory experience.



Élos Soft

The controls are crossed by a vertical tactile indicator that emanates soft light generated by blue LEDs among the shadows.



Chiara

The asymmetric lighting of the switches gives a distinctive and personal note to each light point, without affecting the purity and harmony of the lines.



Mylos

When lit, the LED creates a fading effect that fits in harmoniously with the design of the frame; however, when it is off it is completely invisible. The luminous indicator, completely embedded in the key cover, does not diminish the velvet-like touch sensation.

Mylos, Élos and Chiara: ABB wiring accessories

Comfort and energy saving

Comfort and savings are now increasingly linked: with the wide range of time-programmed thermostats and thermostats of the Mylos, Élos and Chiara wiring accessories you can maximize comfort while reducing waste.

1



Whatever you require, heating or air conditioning, with a single device you can program your system for a perfect temperature regulation, making each environment a welcoming space.

IR detector devices and dimmers allow intelligent management of the lighting, improving the quality of each environment and allowing you to create special atmospheres.

Mylos, Élos and Chiara: ABB wiring accessories

Protection and safety

1

ABB wiring accessories combine aesthetics with the safety of persons and environments: it is advisable to install specific protection devices against overloads, short circuits and overvoltage, from miniture circuit breakers to surge protections; in the case of leakage of natural gas and LPG it is important to prevent hazards and damage through appropriate detection and signalling devices, from detectors and signal repeaters to solenoid valves.



Emergency lighting can be implemented with convenient removable anti blackout lights or with professional emergency lamps, possibly with programmable stairwell light functions and adjustable light intensity.



Interlocked socket outlets are suitable for installation in the system terminations to protect the load supplied from the outlet against dangers of short circuits and overloads.



Mylos

Ordering codes and technical details

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Ordering codes

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Mylos

Components and functions

2



Control devices

Maximum flexibility in the selection of switches, push switches, two-way switches, intermediate switches, relays and change-over switches.

The most common control devices are available in screwless versions, reducing installation times even further.

All the conventional control devices, except for relays and change-over switches, can be lit. Switches are available with an incorporated LED to enable all types of functional indication.



Socket outlets

The versions with 2P+E 10-16A plugs for 250V lines are available in the Italian and German standards, with safety shutters and side/central earth. For telephone and data transmission applications various types of connectors compatible with the most widespread international wiring standards are available.



Key covers

The key covers in 1 module or 1/2 module versions allow conventional switches to be customised as desired.



Protection devices

These devices intervene in the event of overloads, short circuits and other phenomena that involve a risk for the safety of persons and which compromise proper operation of connected appliances, performing their protection function directly downstream without impacting the power supply to other points in the electrical installation.



Signalling devices

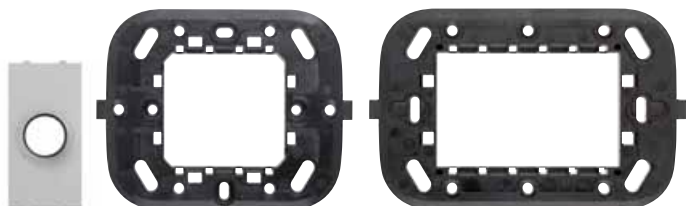
Warning lights to display the operating status of connected appliances, as well as bells and buzzers. The warning lights are supplied with an incorporated 230V LED, which can be replaced for use under different voltages, if necessary.



Comfort devices

To optimize the operation of electrical appliances and increase the liveability of environments, the range includes devices for programming, adjustment and timing such as time-programmed thermostats, electronic thermostats and dimmers. IR presence detectors and receivers for remote controls complete the product range to guarantee the maximum level of comfort.

Removable anti-blackout lights and emergency lights are available with ample operating autonomy.



Components for installation

Blank covers for unused modules and mounting supports for 2, 3, 4, 7 and 4+4 modules for the installation of devices and components in round and rectangular flush-mounted boxes. All types of modular solutions can be used thanks to the presence of the 1/2 module blank cover.



Frames

The range of Mylos frames allows a wide choice with 4 different finishes: the technological Lucent, the innovative Velvet, the elegant Metal and the refined Crystal. All the frames (except for those made of glass) are available in both shapes, Round and Square, so they can be adapted to any setting. There is wide range of colours to make every environment exclusive.

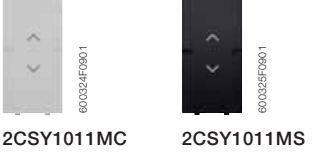
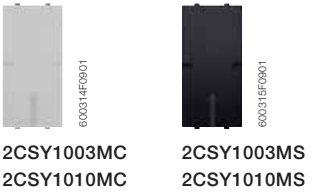
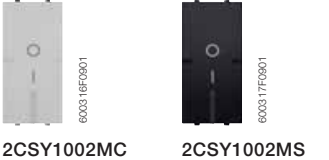
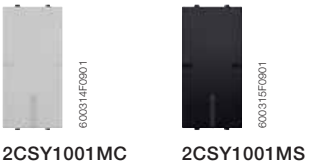


All the products in the range that require the IMQ mark have obtained it, in compliance with the specific Reference standards.

Mylos - Order codes

Conventional switches

2



Switches

Description	N° modules	Code	Packing/ No. items
Single-pole switch, 16A - 250V~	1	2CSY1001MC	1/24
	1	2CSY1001MS	1/24
Double-pole switch, 16A - 250V~	1	2CSY1002MC	1/24
	1	2CSY1002MS	1/24
Single pole switch, 16A - 250V~, two modules	2	2CSY1001XC	1/12
	2	2CSY1001XS	1/12
Double-pole switch, 16A - 250V~, with key control	1	2CSY1007MC	1/24
	1	2CSY1007MS	1/24
Double-pole switch, 16A - 250V~, with universal key control	1	2CSY1007MCU	1/1
	1	2CSY1007MSU	1/1

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.

Two-way switches - Intermediate switch - Change-over switches

Description	N° modules	Code	Packing/ No. items
Single-pole two-way switch, 16A - 250V~	1	2CSY1003MC	1/24
	1	2CSY1003MS	1/24
Single-pole two-way switch, 16A - 250V~, two modules	2	2CSY1003XC	1/12
	2	2CSY1003XS	1/12
Intermediate switch, 16A - 250V~	1	2CSY1010MC	1/24
	1	2CSY1010MS	1/24
Intermediate switch, 16A - 250V~, two modules	2	2CSY1010XC	1/12
	2	2CSY1010XS	1/12
Change-over switch, 10A - 250V~ three-position, with central OFF	1	2CSY1011MC	1/24
	1	2CSY1011MS	1/24

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.



600314F0901

2CSY1005MC
2CSY1016MC



600315F0901

2CSY1005MS
2CSY1016MS



600328F0901

2CSY1017MC



600327F0901

2CSY1017MS



600371F0901

2CSY1017MY



600324F0901

2CSY1018MC



600325F0901

2CSY1018MS



600328F0901

2CSY1020MC
2CSY1021MC



600329F0901

2CSY1020MS
2CSY1021MS



600330F0901

2CSY1022MC



600331F0901

2CSY1022MS



600332F0901

2CSY1023MC



600333F0901

2CSY1023MS

Push switches

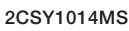
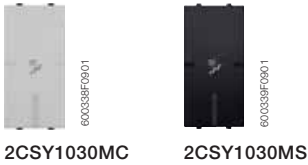
Description	N° modules	Code	Packing/ No. items
Single-pole push switch, 16A - 250V~, normally open	1	2CSY1005MC	1/24
	1	2CSY1005MS	1/24
Single-pole push switch, 16A - 250V~, normally closed	1	2CSY1016MC	1/24
	1	2CSY1016MS	1/24
Double single-pole push switch, 16A - 250V~, NO + NO	1	2CSY1017MC	1/24
	1	2CSY1017MS	1/24
Double single-pole push switch, 16A - 250V~, NO + NO, with interlock	1	2CSY1018MC	1/24
	1	2CSY1018MS	1/24
Double single-pole push switch, 16A - 250V~, NO+NO modular	1	2CSY1017MY	1/24
	1	2CSY1020MC	1/24
Single-pole push switch with pull cord, 16A - 250V~, normally open. Supplied with 2.25 m cord	1	2CSY1020MS	1/24
	1	2CSY1021MC	1/24
Single-pole push switch with pull cord, 16A - 250V~, normally closed. Supplied with 2.25 m cord	1	2CSY1021MS	1/24
	1	2CSY1022MC	1/24
Single-pole push switch, 16A - 250V~, 1 NO + 1 NC, with ON symbol	1	2CSY1022MS	1/24
	1	2CSY1023MC	1/24
Single-pole push switch, 16A - 250V~, 1 NO + 1 NC, with OFF symbol	1	2CSY1023MS	1/24

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.

Mylos - Order codes

Conventional switches

2



Push switches

Description	N° modules	Code	Packing/ No. items
Single-pole push switch, 16A - 250V~, normally open, with bell symbol	1	2CSY1028MC	1/24
	1	2CSY1028MS	1/24
Single-pole push switch, 16A - 250V~, normally open, with key symbol	1	2CSY1029MC	1/24
	1	2CSY1029MS	1/24
Single-pole push switch, 16A - 250V~, normally open, with stairlight symbol	1	2CSY1030MC	1/24
	1	2CSY1030MS	1/24
Double-pole push switch, 16A - 250V~, with key control	1	2CSY1008MC	1/24
	1	2CSY1008MS	1/24
Double-pole push switch, 16A - 250V~, with universal key control	1	2CSY1008MCU	1/24
	1	2CSY1008MSU	1/24

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.

Relay

Description	N° modules	Code	Packing/ No. items
Single-pole latching relay, with 230V~ coil, output contact 10A	1	2CSY1012MC	1/24
	1	2CSY1012MS	1/24
Monostable relay, with 230V~ coil, output contact 10A	1	2CSY1014MC	1/24
	1	2CSY1014MS	1/24

Technical details from page 2/46.

Mylos - Order codes

Screwless switches



600342F0901

2CSY1001SC
2CSY1002SC



600343F0901

2CSY1001SS
2CSY1002SS



600344F0901

2CSY1001ZC



600345F0901

2CSY1001ZS



600342F0901

2CSY1003SC
2CSY1010SC



600343F0901

2CSY1003SS
2CSY1010SS



600344F0901

2CSY1003ZC



600345F0901

2CSY1003ZS



600342F0901

2CSY1005SC



600343F0901

2CSY1005SS

Switches

Description	N° modules	Code	Packing/ No. items
Single-pole switch, 16A - 250V~	1	2CSY1001SC	1/24
	1	2CSY1001SS	1/24
Double-pole switch, 16A - 250V~	1	2CSY1002SC	1/24
	1	2CSY1002SS	1/24
Single-pole switch, 16A - 250V~, two modules	2	2CSY1001ZC	1/12
	2	2CSY1001ZS	1/12

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.

Two-way switches - Intermediate switch

Description	N° modules	Code	Packing/ No. items
Single-pole two-way switch, 16A - 250V~	1	2CSY1003SC	1/24
	1	2CSY1003SS	1/24
Single-pole two-way switch, 16A - 250V~, two modules	2	2CSY1003ZC	1/12
	2	2CSY1003ZS	1/12
Intermediate switch, 16A - 250V~	1	2CSY1010SC	1/24
	1	2CSY1010SS	1/24
Intermediate switch, 16A - 250V~, two modules	2	2CSY1010ZC	1/12
	2	2CSY1010ZS	1/12

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.

Push switches

Description	N° modules	Code	Packing/ No. items
Single-pole push switch, 16A, normally open	1	2CSY1005SC	1/24
	1	2CSY1005SS	1/24

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.

Mylos - Order codes

Switches with incorporated LED

2



600314F0901

2CSY1004FC



600315F0901

2CSY1004FS



600316F0901

2CSY1006MC
2CSY1006FC



600317F0901

2CSY1006MS
2CSY1006FS

Switches with incorporated LED

Description	N° modules	Code	Packing/ No. items
Single-pole switch, 16A - 250V~ (incorporated LED)	1	2CSY1004FC	1/24
	1	2CSY1004FS	1/24
Double-pole switch, 16A - 250V~ with incorporated LED (functional indication always ON)	1	2CSY1006MC	1/24
	1	2CSY1006MS	1/24
Double-pole switch, 16A - 250V~ with incorporated LED (load functional indication)	1	2CSY1006FC	1/24
	1	2CSY1006FS	1/24



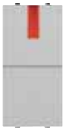
600314F0901

2CSY1015FC



600315F0901

2CSY1015FS



600346F0901

2CSY1024MC



600347F0901

2CSY1024MS



600348F0901

2CSY1025MC



600349F0901

2CSY1025MS



600350F0901

2CSY1026MC



600351F0901

2CSY1026MS



600352F0901

2CSY1027MC



600353F0901

2CSY1027MS



600572F0901

2CSY1027MY

Push switches with incorporated LED

Description	N° modules	Code	Packing/ No. items
Single-pole push switch, 16A - 250V~, normally open (incorporated LED)	1	2CSY1015FC	1/24
	1	2CSY1015FS	1/24
Single-pole push switch, 16A - 250V~, normally open, with red diffuser (incorporated LED)	1	2CSY1024MC	1/24
	1	2CSY1024MS	1/24
Single-pole push switch, 16A - 250V~, normally open, with green diffuser (incorporated LED)	1	2CSY1025MC	1/24
	1	2CSY1025MS	1/24
Single-pole push switch, 16A - 250V~, normally open, with orange diffuser (incorporated LED)	1	2CSY1026MC	1/24
	1	2CSY1026MS	1/24
Single-pole push switch, 16A - 250V~, normally open, with white diffuser (incorporated LED)	1	2CSY1027MC	1/24
	1	2CSY1027MS	1/24
Single-pole push switch with warning light, 16A - 250V~, normally open, modular (incorporated LED)	1	2CSY1027MY	1/24

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.



600354F0901

2CSY1031MC



600355F0901

2CSY1031MS



600356F0901

2CSY1032MC



600357F0901

2CSY1032MS

Push switches with incorporated LED

Description	N° modules	Code	Packing/ No. items
Single-pole push switch, 16A - 250V~, normally open, with backlit label holder, 2 modules (incorporated LED)	2	2CSY1031MC	1/12
	2	2CSY1031MS	1/12
Single-pole push switch, 16A - 250V~, normally open, with backlit label holder, 3 modules (incorporated LED)	3	2CSY1032MC	1/8
	3	2CSY1032MS	1/8

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.

Mylos - Order codes

Key covers

2



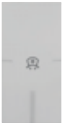
600314F0901

2CSY1501MC



600315F0901

2CSY1501MS



600359F0901

2CSY1502MC



600360F0901

2CSY1502MS



600361F0901

2CSY1503MC



600362F0901

2CSY1503MS



600363F0901

2CSY1504MC



600364F0901

2CSY1504MS



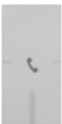
600365F0901

2CSY1505MC



600366F0901

2CSY1505MS



600367F0901

2CSY1506MC



600368F0901

2CSY1506MS



600369F0901

2CSY1507MC



600370F0901

2CSY1507MS



600371F0901

2CSY1508MC



600372F0901

2CSY1508MS

1 module key covers

Description	N° modules	Code	Packing/ No. items
Key cover 1 module, generic	1	2CSY1501MC	4/96
	1	2CSY1501MS	4/96
Key cover 1 module, with nurse symbol	1	2CSY1502MC	4/96
	1	2CSY1502MS	4/96
Key cover 1 module, with table lamp symbol	1	2CSY1503MC	4/96
	1	2CSY1503MS	4/96
Key cover 1 module, with dimmer symbol	1	2CSY1504MC	4/96
	1	2CSY1504MS	4/96
Key cover 1 module, with fan symbol	1	2CSY1505MC	4/96
	1	2CSY1505MS	4/96
Key cover 1 module, with telephone symbol	1	2CSY1506MC	4/96
	1	2CSY1506MS	4/96
Key cover 1 module, with door/gate open symbol	1	2CSY1507MC	4/96
	1	2CSY1507MS	4/96
Key cover 1 module, with door/gate close symbol	1	2CSY1508MC	4/96
	1	2CSY1508MS	4/96

Technical details from page 2/47.



1/2 module key covers

Description	N° modules	Code	Packing/ No. items
Key cover 1/2 module, generic	½	2CSY1511MC	4/96
	½	2CSY1511MS	4/96
Key cover 1/2 module, with red diffuser	½	2CSY1513MC	4/96
	½	2CSY1513MS	4/96
Key cover 1/2 module, with green diffuser	½	2CSY1514MC	4/96
	½	2CSY1514MS	4/96
Key cover 1/2 module, with orange diffuser	½	2CSY1515MC	4/96
	½	2CSY1515MS	4/96
Key cover 1/2 module, with clear diffuser	½	2CSY1516MC	4/96
	½	2CSY1516MS	4/96
Key cover 1/2 module, with blue diffuser	½	2CSY1517MC	4/96
	½	2CSY1517MS	4/96
Key cover 1/2 module, with door vertical arrow	½	2CSY1518MC	4/96
	½	2CSY1518MS	4/96
Key cover 1/2 module, with door horizontal arrow	½	2CSY1519MC	4/96
	½	2CSY1519MS	4/96
Key cover 1/2 module, with door/gate open symbol	½	2CSY1520MC	4/96
	½	2CSY1520MS	4/96
Key cover 1/2 module, with door door/gate close symbol	½	2CSY1521MC	4/96
	½	2CSY1521MS	4/96

Technical details from page 2/47.

Mylos - Order codes

Socket outlets

2



600393F0901

2CSY1101MC



600394F0901

2CSY1101MS



600398F0901

2CSY1103MC



600398F0901

2CSY1103MS



600397F0901

2CSY1104MR



600398F0901

2CSY1105MV



600399F0901

2CSY1106MA

Socket outlets, Italian standard with safety shutters

Description	N° modules	Code	Packing/ No. items
2P+E socket outlet, 10A - 250V~, P11 type	1	2CSY1101MC	1/24
	1	2CSY1101MS	1/24
2P+E socket outlet, 10/16A - 250V~, P17/11 type	1	2CSY1103MC	1/24
	1	2CSY1103MS	1/24
2P+E socket outlet, 16A - 250V~, P17/11 type, coloured for privileged circuits	1	2CSY1104MR	1/24
	1	2CSY1105MV	1/24
	1	2CSY1106MA	1/24

Technical details from page 2/48.



600405F0901

2CSY1108MC



600406F0901

2CSY1108MS



600407F0901

2CSY1109MC



600407F0901

2CSY1109MS



600407F0901

2CSY1114MR



600408F0901

2CSY1115MV



600409F0901

2CSY1116MA



600402F0901

2CSY1110MR



600403F0901

2CSY1111MV



600404F0901

2CSY1112MA

Socket outlets, Italian/German standard with safety shutters and side/central earth

Description	N° modules	Code	Packing/ No. items
2P+E socket outlet, 16A - 250V~, P30 type	2	2CSY1108MC	1/12
	2	2CSY1108MS	1/12
2P+E socket outlet, 16A - 250V~, P30/17 type	2	2CSY1109MC	1/12
	2	2CSY1109MS	1/12
2P+E socket outlets, 16A - 250V~, P30 type, coloured for privileged circuits	2	2CSY1114MR	1/12
	2	2CSY1115MV	1/12
	2	2CSY1116MA	1/12
2P+E socket outlets, 16A - 250V~, P30/17 type, coloured for privileged circuits	2	2CSY1110MR	1/12
	2	2CSY1111MV	1/12
	2	2CSY1112MA	1/12

Technical details from page 2/48.



2CSY1113MC

600410F0901



2CSY1113MS

600411F0901



2CSY1160MC

600607F0901



2CSY1160MS

600608F0901



2CSY1118MC
2CSY1132MC
2CSY1136MC
2CSY1137MC

600412F0901



2CSY1118MS
2CSY1132MS
2CSY1136MS
2CSY1137MS

600413F0901



2CSY1140MC

600414F0901



2CSY1140MS

600415F0901



2CSY1133MC
2CSY1130MC
2CSY1131MC

600416F0901



2CSY1133MS
2CSY1130MS
2CSY1131MS

600417F0901



2CSE1610EL

600243F0901

Special socket outlets

Description	N° modules	Code	Packing/ No. items
2P shaver socket outlet with insulating transformer, power supply 230V~ 50/60Hz	3	2CSY1113MC	1/1
Output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket, P11 type)	3	2CSY1113MS	1/1
Flush-mounted USB charger 500-650mA, with male type A connector,	NEW 1	2CSY1160MC	1/24
power supply 230V~ 50/60Hz, output voltage 5V DC	1	2CSY1160MS	1/24

Technical details from page 2/49.

TV/SAT sockets

Description	N° modules	Code	Packing/ No. items
Coaxial TV/SAT sockets, direct, male IEC connector, Ø 9.5 mm, DC	1	2CSY1118MC	1/24
	1	2CSY1118MS	1/24
Coaxial TV/SAT sockets, feedthrough, male IEC connector, Ø 9.5 mm, attenuation 7 dB	1	2CSY1132MC	1/24
	1	2CSY1132MS	1/24
Coaxial TV/SAT sockets, feedthrough, male IEC connector, Ø 9.5 mm, attenuation 10 dB	1	2CSY1136MC	1/24
	1	2CSY1136MS	1/24
Coaxial TV/SAT sockets, feedthrough, male IEC connector, Ø 9.5 mm, attenuation 14 dB	1	2CSY1137MC	1/24
	1	2CSY1137MS	1/24
Coaxial TV/SAT sockets, direct, female F connector, DC	1	2CSY1140MC	1/24
	1	2CSY1140MS	1/24
Coaxial TV/SAT sockets, double demixed, feedthrough, male IEC connector, Ø 9.5 mm and female F connector	1	2CSY1133MC	1/24
	1	2CSY1133MS	1/24
Coaxial TV/SAT sockets, double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 10 dB	1	2CSY1130MC	1/24
	1	2CSY1130MS	1/24
Coaxial TV/SAT sockets: double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 14 dB	1	2CSY1131MC	1/24
	1	2CSY1131MS	1/24
Terminal resistor 75 Ohm	-	2CSE1610EL	50/200

Technical details from page 2/51.

Mylos - Order codes

Socket outlets

2



600-18F0501

2CSY1121MC
2CSY1122MC
2CSY1124MC
2CSY1125MC
2CSY1127MC
2CSY1128MC



600-18F0501

2CSY1121MS
2CSY1122MS
2CSY1124MS
2CSY1125MS
2CSY1127MS
2CSY1128MS



600-420F0901

2CSY1135MC



600-421F0901

2CSY1135MS

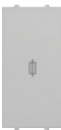
Network and telephone sockets

Description	N° modules	Code	Packing/ No. items
Telephone connector, RJ11	1	2CSY1121MC	1/24
	1	2CSY1121MS	1/24
Telephone connector, RJ12	1	2CSY1122MC	1/24
	1	2CSY1122MS	1/24
RJ45 connector, Cat.5e, UTP (unshielded)	1	2CSY1124MC	1/24
	1	2CSY1124MS	1/24
RJ45, Cat.5e, FTP (shielded)	1	2CSY1125MC	1/24
	1	2CSY1125MS	1/24
RJ45 connector, Cat.6, UTP (unshielded)	1	2CSY1127MC	1/24
	1	2CSY1127MS	1/24
RJ45 connector, Cat.6, FTP (shielded)	1	2CSY1128MC	1/24
	1	2CSY1128MS	1/24
Adapter for RJ45 connector, Keystone type	1	2CSY1135MC	1/24
	1	2CSY1135MS	1/24

Technical details from page 2/54.

Mylos - Order codes

Protection devices



600422F0901

2CSY1301MC



600423F0901

2CSY1301MS



600428F0901

2CSY1302MC



600429F0901

2CSY1302MS



600429F0901

2CSY1302MY

Fuse holders and overvoltage limiters

Description	N° modules	Code	Packing/ No. items
Fuse holder, Ø5x20 / Ø6.3x32, 16A	1	2CSY1301MC	1/24
	1	2CSY1301MS	1/24
Surge protection device limiter 75J, 250V~	1	2CSY1302MC	1/24
	1	2CSY1302MS	1/24
Spare protection for surge protection device	-	2CSY1302MY	1/24

Technical details from page 2/56.

2



600427F0901

2CSY1304MC



600428F0901

2CSY1304MS



600432F0901

2CSY1305MC



600430F0901

2CSY1305MS



600431F0901

2CSY1306MC



600432F0901

2CSY1306MS



600433F0901

2CSY1307MC



600434F0901

2CSY1307MS



600435F0901

2CSY1308MC



600436F0901

2CSY1308MS



600437F0901

2CSY1309MC



600438F0901

2CSY1309MS

Miniature circuit-breakers - Residual current circuit-breakers

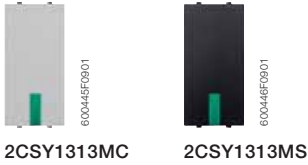
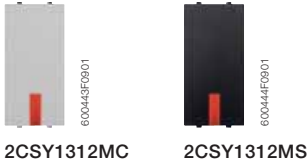
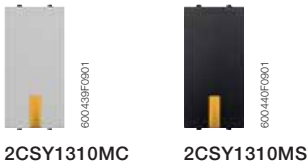
Description	N° modules	Code	Packing/ No. items
Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	1	2CSY1304MC	1/12
	1	2CSY1304MS	1/12
Automatic MCB, 1P+N, C10, breaking capacity 3kA	1	2CSY1305MC	1/12
	1	2CSY1305MS	1/12
Automatic MCB, 1P+N, C16, breaking capacity 3kA	1	2CSY1306MC	1/12
	1	2CSY1306MS	1/12
Automatic RCD, 1P+N, C6 - 10 mA, breaking capacity 1.5kA	2	2CSY1307MC	1/8
	2	2CSY1307MS	1/8
Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2	2CSY1308MC	1/8
	2	2CSY1308MS	1/8
Automatic RCD, 1P+N, C16 - 10 mA, breaking capacity 3kA	2	2CSY1309MC	1/8
	2	2CSY1309MS	1/8

Technical details from page 2/58.

Mylos - Order codes

Signalling devices

2



Warning lights

Description	N° modules	Code	Packing/ No. items
Orange warning light, (incorporated LED)	1	2CSY1310MC	1/24
	1	2CSY1310MS	1/24
White warning light, (incorporated LED)	1	2CSY1311MC	1/24
	1	2CSY1311MS	1/24
Red warning light, (incorporated LED)	1	2CSY1312MC	1/24
	1	2CSY1312MS	1/24
Green warning light, (incorporated LED)	1	2CSY1313MC	1/24
	1	2CSY1313MS	1/24

Technical details from page 2/37.

Bells and buzzers

Description	N° modules	Code	Packing/ No. items
Electro-mechanical bell, 12V, 5VA power, 80dB sound intensity	1	2CSY1317MC	1/24
	1	2CSY1317MS	1/24
Electro-mechanical bell, 230V, 8VA power, 80dB sound intensity	1	2CSY1318MC	1/24
	1	2CSY1318MS	1/24
Electro-mechanical buzzer 12V, 5VA power, 70dB sound intensity	1	2CSY1321MC	1/24
	1	2CSY1321MS	1/24
Electro-mechanical buzzer 230V, 8VA power, 80dB sound intensity	1	2CSY1322MC	1/24
	1	2CSY1322MS	1/24

Mylos - Order codes

Comfort devices



600448F0901

2CSY1201MC



600450F0901

2CSY1201MS



600451F0901

2CSY1202MC



600452F0901

2CSY1202MS



600453F0901

2CSY1201XC



600454F0901

2CSY1201XS



600455F0901

2CSY1202XC



600456F0901

2CSY1202XS



600457F0901

2CSY1205MC
2CSY1207MC



600458F0901

2CSY1205MS
2CSY1207MS



600459F0901

2CSY1206MC



600460F0901

2CSY1206MS

Thermostats and time-programmable thermostats

Description	N° modules	Code	Packing/ No. items
Electronic time-programmable thermostat, day/week programming, summer/winter function, with LCD display, 3 modules, powered by 1.5V AA battery	3	2CSY1201MC	1/1
Electronic thermostat, summer/winter function, with LCD display, 3 temperature levels can be set, 3 modules, powered by 1.5V AA battery	3	2CSY1201MS	1/1
Electronic time-programmable thermostat, day/week programming, summer/winter function, with LCD display, 2 modules, 230V~ 50/60Hz power supply	2	2CSY1201XC	1/1
Electronic thermostat, summer/winter function, with LCD display, 3 temperature levels can be set, 2 modules 230V~ 50/60Hz power supply	2	2CSY1202XS	1/1

Technical details from page 2/61.

Dimmers

Description	N° modules	Code	Packing/ No. items
Electronic dimmer with rotary control for resistive loads 100-500W 230V~ 50/60Hz	1	2CSY1205MC	1/24
Electronic dimmer with push-button control for resistive and inductive loads 60-500W (60-500VA) 230V~ 50/60Hz	1	2CSY1206MC	1/24
Electronic dimmer with rotary control and two-way switch for resistive loads 100-500W 230V~ 50/60Hz	1	2CSY1207MC	1/24

Technical details from page 2/67.

Mylos - Order codes

Safety devices

2



600467F0901

2CSY1210MC



600468F0901

2CSY1210MS



600469F0901

2CSY1211MC



600470F0901

2CSY1211MS



600471F0901

2CSY1214MC



600069F0901



600472F0901

2CSY1214MS



600228F0901



600070F0901

2CSY1303MC

Gas detectors

Description	N° modules	Code	Packing/ No. items
NEW Natural gas electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box Natural gas probe replacement module	3	2CSY1210MC	1/1
	3	2CSY1210MS	1/1
	-	2CSY1220MC	1/1
	-	2CSY1220MS	1/1
NEW LPG gas electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box LPG gas probe replacement module	3	2CSY1211MC	1/1
	3	2CSY1211MS	1/1
	-	2CSY1223MC	1/1
	-	2CSY1223MS	1/1

Technical details from page 2/70.

Emergency lighting

Description	N° modules	Code	Packing/ No. items
Anti black-out removable light, 230V~.	2	2CSY1214MC	1/12
Charge reserve 4.5 h and recharge time 10-20 h. To be combined with 230V~ sockets	2	2CSY1214MS	1/12
LED lamp for emergency or stairwell lighting.	3	2CSY1303MC	1/1

Charge reserve up to 3h and recharge time 12h. Power supply 230V~ - 50Hz.

Equipped with dedicated frame for installation on type 503 box

Technical details from page 2/72.



600461F0901

2CSY1216MC



600462F0901

2CSY1216MS



600463F0901

2CSY1217MC



600464F0901

2CSY1217MS



600465F0901

2CSY1426MC



600466F0901

2CSY1426MS



600232F0901

2CSE1217EL

Other devices

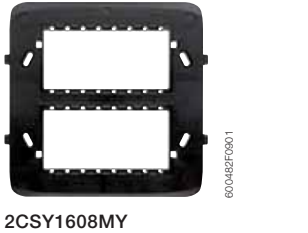
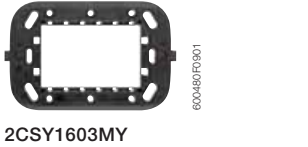
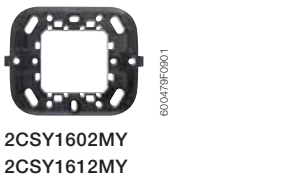
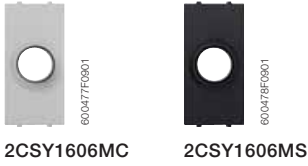
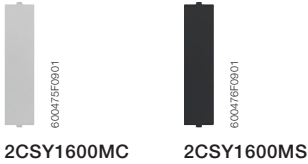
Description	N° modules	Code	Packing/ No. items
IR motion detector, with twilight sensor and adjustment of operation time	1	2CSY1216MC	1/24
	1	2CSY1216MS	1/24
IR receiver for remote control, 1-channel, 230V~	2	2CSY1217MC	1/12
	2	2CSY1217MS	1/12
Portable remote control, 6 channels / 3 bands	-	2CSE1217EL	1/2
Universal badge switch with location light	2	2CSY1426MC	1/1
	2	2CSY1426MS	1/1

Technical details from page 2/74.

Mylos - Order codes

Installation devices, accessories

2



Blank covers

Description	N° modules	Code	Packing/ No. items
Blank cover, 1 module	1	2CSY1601MC	1/24
	1	2CSY1601MS	1/24
Blank cover, 1/2 module	½	2CSY1600MC	2/48
	½	2CSY1600MS	2/48
Blank cover, 1 module with hole for cable outlet, Ø 11.50 mm	1	2CSY1606MC	1/24
	1	2CSY1606MS	1/24

Supports

Description	N° modules	Code	Packing/ No. items
Support, 2 modules with screws for flush mounted boxes with 60mm or 56x56mm screw distance	2	2CSY1602MY	1/10
Support, 2 modules (with claws) for round box (screw distance 60 mm)	2	2CSY1612MY	1/10
Support, 3 modules for rectangular box (screw distance 83.5 mm)	3	2CSY1603MY	1/10
Support, 4 modules for rectangular box (screw distance 108 mm)	4	2CSY1604MY	1/10
Support, 7 modules for rectangular box (screw distance 100 mm)	7	2CSY1607MY	1/1
Support, 4+4 modules for rectangular box (screw distance 108 mm)	4+4	2CSY1608MY	1/1

Technical screw from page 2/33.



600358FC001

2CSY1632MY
2CSY1633MY
2CSY1609MY
2CSY1622MY
2CSY1624MY

LEDs

Description	N° modules	Code	Packing/ No. items
LED, 250V~, white, to be used with illuminated switches for night-time location	-	2CSY1632MY	1/24
LED, 250V~, white, to be used with two-way and intermediate switch for night-time location	-	2CSY1633MY	1/24
LED, 9V, white, replacement for switches with incorporated LEDs	-	2CSY1609MY	1/24
LED, 12V~, white, replacement for switches with incorporated LEDs	-	2CSY1622MY	1/24
LED, 24V~, white, replacement for switches with incorporated LEDs	-	2CSY1624MY	1/24

Information on the illumination of switches from page 2/37.
Technical details from page 2/41.



2CSY000614F0901

2CSY1618MY

DIN Rail adapter

Description	N° modules	Code	Packing/ No. items
Din rail adapter	NEW 2	2CSY1618MY	1/10

Mylos - Order codes

Quick selection table for frames

2

Frames with Crystal finish

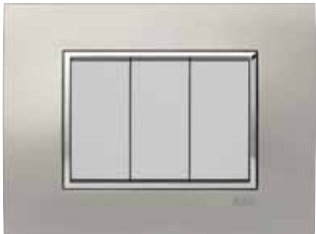


Satin white (square)
page 2/25



Satin black (square)
page 2/25

Frames with Metal finish



Light silver (square)
page 2/26



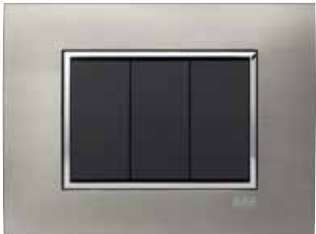
Light silver (round)
page 2/26



Dark titanium (square)
page 2/26



Dark titanium (round)
page 2/26



Brushed steel (square)
page 2/26



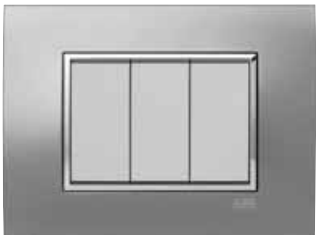
Brushed steel (round)
page 2/26



Brushed nickel (square)
page 2/26



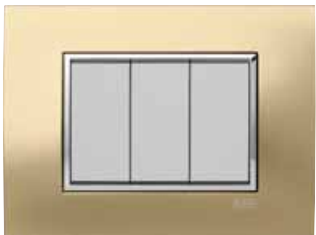
Brushed nickel (round)
page 2/26



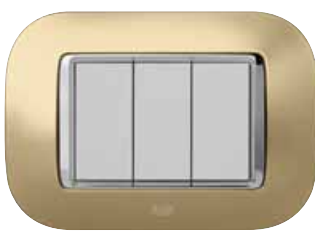
Satin aluminium (square)
page 2/27



Satin aluminium (round)
page 2/27



Satin gold (square)
page 2/27



Satin gold (round)
page 2/27



Glossy gold (square)
page 2/27



Glossy gold (round)
page 2/27



Glossy chrome (square)
page 2/27



Glossy chrome (round)
page 2/27

Frames with Velvet finish



White (square)
page 2/28



White (round)
page 2/28



Pure white (square)
page 2/28



Pure white (round)
page 2/28



Black (square)
page 2/28



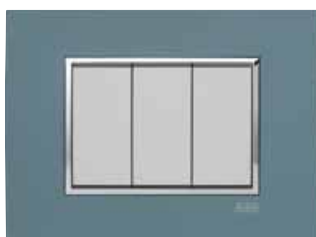
Black (round)
page 2/28



Ice (square)
page 2/28



Ice (round)
page 2/28



Cold grey (square)
page 2/29



Cold grey (round)
page 2/29



Graphite (square)
page 2/29



Graphite (round)
page 2/29



Anthracite (square)
page 2/29



Anthracite (round)
page 2/29

Mylos - Order codes

Quick selection table for frames

Frames with Lucent finish

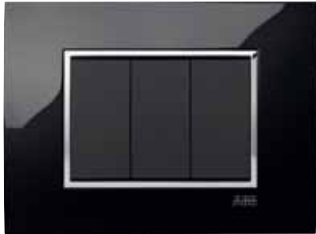
2



Alabaster white (square)
page 2/30



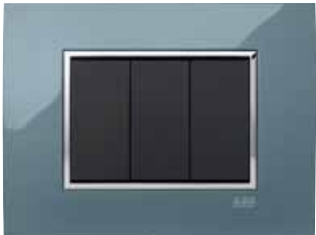
Alabaster white (round)
page 2/30



Brilliant black (square)
page 2/30



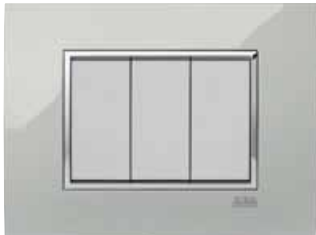
Brilliant black (round)
page 2/30



Cold grey (square)
page 2/30



Cold grey (round)
page 2/30



Ice (square)
page 2/30



Ice (round)
page 2/30

Mylos - Order codes

Frames with Crystal finish



Satin white colour



Satin black colour

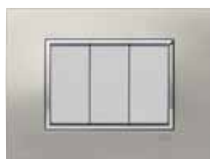
Colour	N° modules	Order code	Box/Pack No. items
Satin white (square)	2	2CSY0201QSV	1/12
	3	2CSY0301QSV	1/12
	4	2CSY0401QSV	1/6
Satin black (square)	2	2CSY0200QSV	1/12
	3	2CSY0300QSV	1/12
	4	2CSY0400QSV	1/6

Technical details and customization from page 2/77.

Mylos - Order codes

Frames with Metal finish

2



600486F0901

Satin silver colour



600487F0901

Satin silver colour



600488F0901

Dark titanium colour



600489F0901

Dark titanium colour



600490F0901

Brushed steel colour



600491F0901

Brushed steel colour



600492F0901

Brushed nickel colour

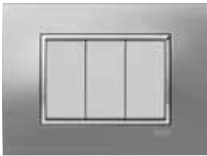


600493F0901

Brushed nickel colour

Colour	N° modules	Order code	Box/Pack No. items
Light silver (square)	2	2CSY0211QLZ	1/12
	3	2CSY0301QLZ	1/12
	4	2CSY0411QLZ	1/6
	7	2CSY0711QLZ	1/6
	4+4	2CSY0811QLZ	1/3
Light silver (round)	2	2CSY0211RLZ	1/12
	3	2CSY0311RLZ	1/12
	4	2CSY0411RLZ	1/6
	7	2CSY0711RLZ	1/6
	4+4	2CSY0811RLZ	1/3
Dark titanium (square)	2	2CSY0200QSZ	1/12
	3	2CSY0300QSZ	1/12
	4	2CSY0400QSZ	1/6
	7	2CSY0700QSZ	1/6
	4+4	2CSY0800QSZ	1/3
Dark titanium (round)	2	2CSY0200RSZ	1/12
	3	2CSY0300RSZ	1/12
	4	2CSY0400RSZ	1/6
	7	2CSY0700RSZ	1/6
	4+4	2CSY0800RSZ	1/3
Brushed steel (square)	2	2CSY0202QSZ	1/12
	3	2CSY0302QSZ	1/12
	4	2CSY0402QSZ	1/6
	7	2CSY0702QSZ	1/6
	4+4	2CSY0802QSZ	1/3
Brushed steel (round)	2	2CSY0202RSZ	1/12
	3	2CSY0302RSZ	1/12
	4	2CSY0402RSZ	1/6
	7	2CSY0702RSZ	1/6
	4+4	2CSY0802RSZ	1/3
Brushed nickel (square)	2	2CSY0203QSZ	1/12
	3	2CSY0303QSZ	1/12
	4	2CSY0403QSZ	1/6
	7	2CSY0703QSZ	1/6
	4+4	2CSY0803QSZ	1/3
Brushed nickel (round)	2	2CSY0203RSZ	1/12
	3	2CSY0303RSZ	1/12
	4	2CSY0403RSZ	1/6
	7	2CSY0703RSZ	1/6
	4+4	2CSY0803RSZ	1/3

Technical details and customization from page 2/77.



Satin aluminium colour

600494FC001



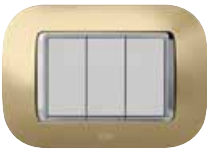
Satin aluminium colour

600495FC001



Satin gold colour

600496FC001



Satin gold colour

600497FC001



Glossy gold colour

600498FC001



Glossy gold colour

600499FC001



Glossy chrome colour

600500FC001



Glossy chrome colour

600501FC001

Colour	N° modules	Order code	Box/Pack No. items
Satin aluminium (square)	2	2CSY0204QLZ	1/12
	3	2CSY0304QLZ	1/12
	4	2CSY0404QLZ	1/6
	7	2CSY0704QLZ	1/6
	4+4	2CSY0804QLZ	1/3
Satin aluminium (round)	2	2CSY0204RLZ	1/12
	3	2CSY0304RLZ	1/12
	4	2CSY0404RLZ	1/6
	7	2CSY0704RLZ	1/6
	4+4	2CSY0804RLZ	1/3
Satin gold (square)	2	2CSY0205QLZ	1/12
	3	2CSY0305QLZ	1/12
	4	2CSY0405QLZ	1/6
	7	2CSY0705QLZ	1/6
	4+4	2CSY0805QLZ	1/3
Satin gold (round)	2	2CSY0205RLZ	1/12
	3	2CSY0305RLZ	1/12
	4	2CSY0405RLZ	1/6
	7	2CSY0705RLZ	1/6
	4+4	2CSY0805RLZ	1/3
Glossy gold (square)	2	2CSY0207QLZ	1/12
	3	2CSY0307QLZ	1/12
	4	2CSY0407QLZ	1/6
	7	2CSY0707QLZ	1/6
	4+4	2CSY0807QLZ	1/3
Glossy gold (round)	2	2CSY0207RLZ	1/12
	3	2CSY0307RLZ	1/12
	4	2CSY0407RLZ	1/6
	7	2CSY0707RLZ	1/6
	4+4	2CSY0807RLZ	1/3
Glossy chrome (square)	2	2CSY0206QLZ	1/12
	3	2CSY0306QLZ	1/12
	4	2CSY0406QLZ	1/6
	7	2CSY0706QLZ	1/6
	4+4	2CSY0806QLZ	1/3
Glossy chrome (round)	2	2CSY0206RLZ	1/12
	3	2CSY0306RLZ	1/12
	4	2CSY0406RLZ	1/6
	7	2CSY0706RLZ	1/6
	4+4	2CSY0806RLZ	1/3

Technical details and customization from page 2/77.

Mylos - Order codes

Frames with Velvet finish

2



White colour

600502F0901



White colour

600503F0901



Pure white colour

600504F0901



Pure white colour

600505F0901



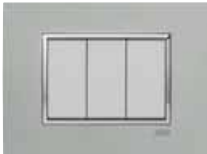
Black colour

600506F0901



Black colour

600507F0901



Ice colour

600508F0901

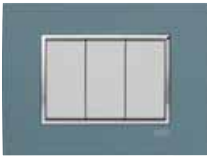


Ice colour

600509F0901

Colour	N° modules	Order code	Box/Pack No. items
White (square)	2	2CSY0224QSP	1/12
	3	2CSY0324QSP	1/12
	4	2CSY0424QSP	1/6
	7	2CSY0724QSP	1/6
	4+4	2CSY0824QSP	1/3
White (round)	2	2CSY0224RSP	1/12
	3	2CSY0324RSP	1/12
	4	2CSY0424RSP	1/6
	7	2CSY0724RSP	1/6
	4+4	2CSY0824RSP	1/3
Pure white (square)	2	2CSY0201QWP	1/12
	3	2CSY0301QWP	1/12
	4	2CSY0401QWP	1/6
	7	2CSY0701QWP	1/6
	4+4	2CSY0801QWP	1/3
Pure white (round)	2	2CSY0201RWP	1/12
	3	2CSY0301RWP	1/12
	4	2CSY0401RWP	1/6
	7	2CSY0701RWP	1/6
	4+4	2CSY0801RWP	1/3
Black (square)	2	2CSY0223QSP	1/12
	3	2CSY0323QSP	1/12
	4	2CSY0423QSP	1/6
	7	2CSY0723QSP	1/6
	4+4	2CSY0823QSP	1/3
Black (round)	2	2CSY0223RSP	1/12
	3	2CSY0323RSP	1/12
	4	2CSY0423RSP	1/6
	7	2CSY0723RSP	1/6
	4+4	2CSY0823RSP	1/3
Ice (square)	2	2CSY0221QSP	1/12
	3	2CSY0321QSP	1/12
	4	2CSY0421QSP	1/6
	7	2CSY0721QSP	1/6
	4+4	2CSY0821QSP	1/3
Ice (round)	2	2CSY0221RSP	1/12
	3	2CSY0321RSP	1/12
	4	2CSY0421RSP	1/6
	7	2CSY0721RSP	1/6
	4+4	2CSY0821RSP	1/3

Technical details and customization from page 2/77.



Cold grey colour

600510FC901



Cold grey colour

600511FC901



Graphite colour

600512FC901



Graphite colour

600513FC901



Anthracite colour

600514FC901



Anthracite colour

600515FC901

Colour	N° modules	Order code	Box/Pack No. items
Cold grey (square)	2	2CSY0222QSP	1/12
	3	2CSY0322QSP	1/12
	4	2CSY0422QSP	1/6
	7	2CSY0722QSP	1/6
	4+4	2CSY0822QSP	1/3
Cold grey (round)	2	2CSY0222RSP	1/12
	3	2CSY0322RSP	1/12
	4	2CSY0422RSP	1/6
	7	2CSY0722RSP	1/6
	4+4	2CSY0822RSP	1/3
Graphite (square)	2	2CSY0225QSP	1/12
	3	2CSY0325QSP	1/12
	4	2CSY0425QSP	1/6
	7	2CSY0725QSP	1/6
	4+4	2CSY0825QSP	1/3
Graphite (round)	2	2CSY0225RSP	1/12
	3	2CSY0325RSP	1/12
	4	2CSY0425RSP	1/6
	7	2CSY0725RSP	1/6
	4+4	2CSY0825RSP	1/3
Anthracite (square)	2	2CSY0226QSP	1/12
	3	2CSY0326QSP	1/12
	4	2CSY0426QSP	1/6
	7	2CSY0726QSP	1/6
	4+4	2CSY0826QSP	1/3
Anthracite (round)	2	2CSY0226RSP	1/12
	3	2CSY0326RSP	1/12
	4	2CSY0426RSP	1/6
	7	2CSY0726RSP	1/6
	4+4	2CSY0826RSP	1/3

Technical details and customization from page 2/77.

Mylos - Order codes

Frames with Lucent finish

2



600518F0901

Alabaster white colour



600517F0901

Alabaster white colour



600518F0901

Brilliant black colour



600519F0901

Brilliant black colour



600520F0901

Cold grey colour



600521F0901

Cold grey colour



600522F0901

Ice colour

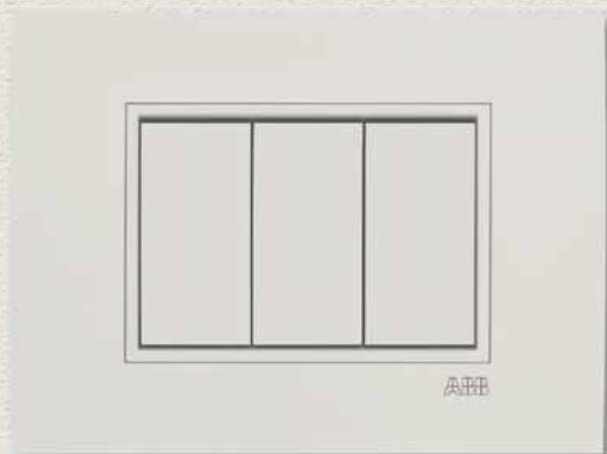


600523F0901

Ice colour

Colour	N° modules	Order code	Box/Pack No. items
Alabaster white (square)	2	2CSY0201QLP	1/12
	3	2CSY0301QLP	1/12
	4	2CSY0401QLP	1/6
	7	2CSY0701QLP	1/6
	4+4	2CSY0801QLP	1/3
Alabaster white (round)	2	2CSY0201RLP	1/12
	3	2CSY0301RLP	1/12
	4	2CSY0401RLP	1/6
	7	2CSY0701RLP	1/6
	4+4	2CSY0801RLP	1/3
Brilliant black (square)	2	2CSY0200QLP	1/12
	3	2CSY0300QLP	1/12
	4	2CSY0400QLP	1/6
	7	2CSY0700QLP	1/6
	4+4	2CSY0800QLP	1/3
Brilliant black (round)	2	2CSY0200RLP	1/12
	3	2CSY0300RLP	1/12
	4	2CSY0400RLP	1/6
	7	2CSY0700RLP	1/6
	4+4	2CSY0800RLP	1/3
Cold grey (square)	2	2CSY0202QLP	1/12
	3	2CSY0302QLP	1/12
	4	2CSY0402QLP	1/6
	7	2CSY0702QLP	1/6
	4+4	2CSY0802QLP	1/3
Cold grey (round)	2	2CSY0202RLP	1/12
	3	2CSY0302RLP	1/12
	4	2CSY0402RLP	1/6
	7	2CSY0702RLP	1/6
	4+4	2CSY0802RLP	1/3
Ice (square)	2	2CSY0203QLP	1/12
	3	2CSY0303QLP	1/12
	4	2CSY0403QLP	1/6
	7	2CSY0703QLP	1/6
	4+4	2CSY0803QLP	1/3
Ice (round)	2	2CSY0203RLP	1/12
	3	2CSY0303RLP	1/12
	4	2CSY0403RLP	1/6
	7	2CSY0703RLP	1/6
	4+4	2CSY0803RLP	1/3

Technical details and customization from page 2/77.



Mylos - Technical details

General information

Main technical data and reference standards for the devices in the range

Component	Reference standards	Basic electrical data*			Prolonged operation No. changes of position	Resistance to abnormal heat and fire	
		Test voltage withstand (V)	Insulation resistance (MW)	Breaking capacity or utilization category		Thermal pressure with ball (°C)	Glow wire tests (°C)
Operating mechanisms	CEI 23-9 (EN 60669-1)	2000 at 50Hz for 1 minute	> 5	1.25 In (200 changes of position)	40000 at In 250V~ cosφ = 0,6)	125	850
Socket outlets	CEI 23-5/CEI 23-50/CEI 23-16 (EN 60884-1)	2000 at 50Hz for 1 minute	> 5	1.25 In (100 changes of position)	10000 at In 250V~ cosφ = 0,8)	125	850
Latching relay	CEI 23-9/CEI 23-62 (EN 60669-1/EN 60669-2-2)	2000 a 50Hz for 1 minute	> 5	-	50000 at In 250V~ cosφ = 0,6)	125	850
Monostable relays	CEI 94-4/CEI-EN 61810-1 (EN 60669-1/EN 60669-2-2)	2000 a 50Hz for 1 minute	> 5	1.25 In (200 changes of position)	50000 at In 250V~ cosφ = 0,6)	125	850
Automatic MCBs	CEI 23-3 (EN 60898)	2000 a 50Hz for 1 minute	-	1.5...3kA	8000	125	850
Automatic RCDs	CEI 23-95	2000 a 50Hz for 1 minute	-	1.5...3kA	4000	125	850
Supports and frames	CEI 23-9 (EN 60669-1)	-	-	-	-	75	650

*For the rated voltages and currents see the specifications for the individual part codes.

Clamping capacity of the terminals

Flexible wires		Rigid wires	
Min. 0.75 mm²	Max. 2x4 mm²	Min. 0.5 mm²	Max. 2x2.5 mm²

Cable traction resistance of terminals: > 50N
Adhesion of switches and devices to the support: > 0,6J

Mylos - Technical details

Installation solutions

Composition method of switches and support



2

Installing and removing switches from the support



- Frontal installation of the switches on the support
- Modularity of switches: 22 mm

Mylos - Technical details

Installation solutions

Installation on concrete walls



No. modules	Screw distance	Recommended box
2 (with claws)	-	00 050
2 (with screws)	60 mm	00 050
3	83.5 mm	1SL006A00
4	108 mm	00 053
7	100 mm	1SL0064A00
4+4	108 mm	Vimar V71318

Note: for further information on ABB boxes for masonry walls please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66).

Installation on plasterboard walls



No. modules	Screw distance	Recommended box
2 (with claws)	-	10801/10802/10807
2 (with screws)	60 mm	10801/10802/10807
3	83.5 mm	10804
4	108 mm	Ave 254CG, BTicino PS564N, Gewiss GW24245 Vimar V71604
7	100 mm	Bticino PS567N Gewiss 24246 Vimar V71606
4+4	108 mm	Vimar V71718

Note: for further information on ABB boxes for plasterboard walls please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66).

Installation on surface mounted boxes



No. modules	Wall box	Frame
2	42 096	Use 2M mounting support and frame
3	41 823	Use 3M mounting support and frame
3	41 822	Use 3M mounting support and frame
4	41 830	Use 4M mounting support and frame

Note: for further information on wall boxes and duct systems please refer to the catalog 1SLC800001D0905 - Plastic and Metal Duct Systems (see page 5/66).

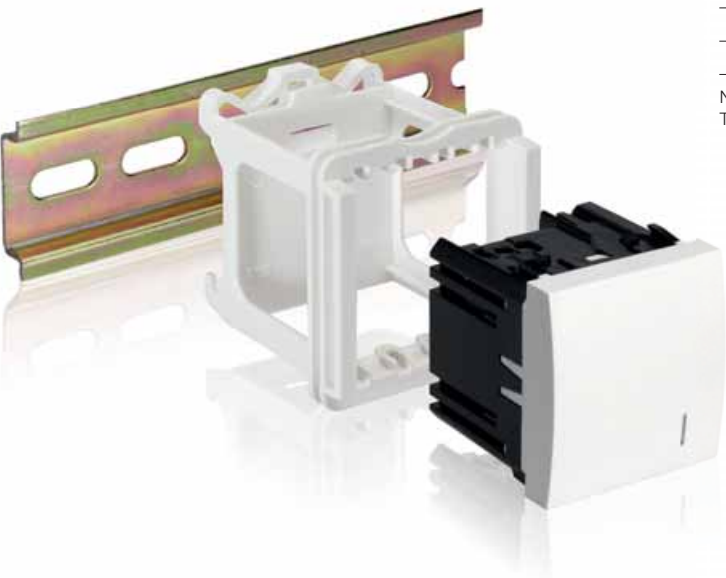
Installation on Lusy table towers



No. modules	Lusy tower	Frame
4	10 507	Use 4M mounting support and frame

Note: for further information on Lusy Undernet table towers please refer to the catalog 1SLC006001D0903 - Floor Distribution Systems (see page 5/66).

Installation on DIN rail adapter



No. modules	Dedicated adapter
2	2CSY1618MY

Note: The DIN rail adapter allows devices to be assembled without the aid of supports. The devices are inserted from the front.

Mylos - Technical details

Construction details

Conventional switches (screw terminals)

2

Wide double terminals for even simpler wiring



Proprietary latching device positioned on the device

Ultra-compact, they leave an average of 3 cm of space in the box

Key cover with velvet finish

Specifications of screws and terminals

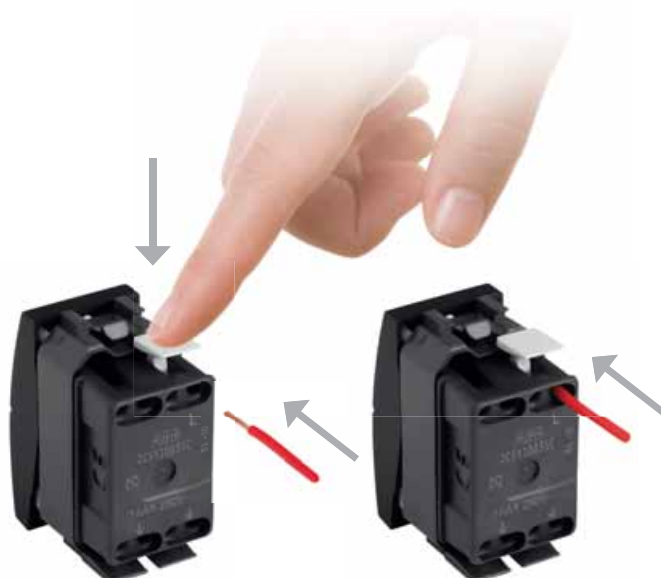
All the contact blocks with conventional terminals of the Mylos wiring accessories' range have open position captive screws with cross and slot head and clamping frame. PH2 impression.

Screwless switches (spring terminals)



By simply pressing the dedicated buttons you can wire the switch without the need for any tools and with a considerable saving of time.

No additional depth compared to equivalent conventional switches.



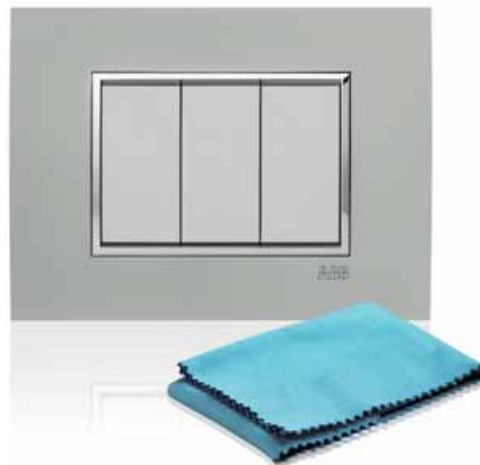
Cleaning and maintenance of the Velvet finish

All switches and devices of the Mylos wiring accessories' range have a Velvet finish, also available for the frames, that gives a velvet effect to the touch.

If there is a build-up of dirt or dust, for cleaning you can simply use common liquid or cream detergents (non-abrasive) on a soft cloth.

In the case of dirt, the use of degreasers is also tolerated.

We recommend the use of specific products for cleaning the plastic opaque parts/dashboard. The use of alcohol/bleach/harsh acids can damage the finish and the pad printing.



Mylos - Technical details

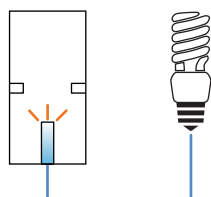
Illumination of switches and selection of LED lamps

Night-time location signalling

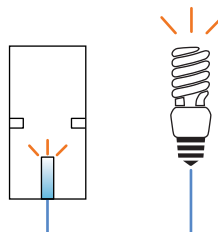


The 2CSY1632MY and 2CSY1633MY LEDs can be added to conventional switches (see page 2/4) for night-time location. The LED electrically connected in parallel with the ON operating mechanism: it is lit when the load is off (OFF command), and it turns off when the load is powered (ON command).

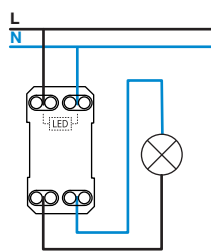
Location signalling (Always ON)



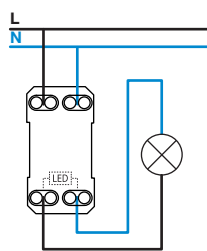
Load functional signalling



Switches with incorporated LED (see page 2/8) have preinstalled 250V~ LEDs and dedicated terminals for wiring. It is possible to implement any type of functional indication, also with LEDs at different voltages.



Wiring of double-pole switches 2CSY1006MC/S for Always ON signalling.
The LED is built in.



Wiring of double-pole switches 2CSY1006FC/S for load functional indication.
The LED is built in.

Since the double-pole switches with incorporated LED do not have dedicated terminals for wiring, they have different part codes depending on which type of functional indication needs to be implemented.

Mylos - Technical details

Illumination of switches and selection of LED lamps

Plug-in LED illumination.

Conventional switches are lit by plug-in LEDs.

There is no need for additional wiring because once the device is fixed in place, it is already ready to light up. In this way it is possible to implement night-time location signalling in a very easy manner.



Incorporated LED illumination.

Switches with incorporated LEDs provide maximum freedom for wiring the signalling LED through the presence of dedicated terminals.



White <input type="checkbox"/>		Black <input checked="" type="checkbox"/>	Description	LED type	Possible signalling		
				Accessorizable with plug-in LED (230V)	Night-time location (discordant load)	Functional (concordant load)	Location (always ON)
Conventional switches							
2CSY1001MC	2CSY1001MS		Single-pole switch	2CSY1632MY	YES	NO	NO
2CSY1002MC	2CSY1002MS		Double-pole switch	2CSY1632MY	YES	NO	NO
2CSY1001XC	2CSY1001XS		Single-pole switch, 2 modules	2CSY1632MY	YES	NO	NO
2CSY1003MC	2CSY1003MS		Single-pole two-way switch	2CSY1633MY	YES	NO	NO
2CSY1003XC	2CSY1003XS		Single-pole two-way switch, 2 modules	2CSY1633MY	YES	NO	NO
2CSY1010MC	2CSY1010MS		Intermediate switch	2CSY1633MY	YES	NO	NO
2CSY1010XC	2CSY1010XS		Intermediate switch, 2 modules	2CSY1633MY	YES	NO	NO
2CSY1011MC	2CSY1011MS		3-position change-over switch	NO	NO	NO	NO
2CSY1005MC	2CSY1005MS		Single-pole push switch, normally open	2CSY1632MY	YES	NO	NO
2CSY1016MC	2CSY1016MS		Single-pole push switch, normally closed	2CSY1632MY	NO	YES	NO
2CSY1017MC	2CSY1017MS		Double single-pole push switch	NO	NO	NO	NO
2CSY1018MC	2CSY1018MS		Double single-pole push switch with interlock	NO	NO	NO	NO
2CSY1022MC	2CSY1022MS		Single-pole push switch with ON symbol	2CSY1632MY	YES	NO	NO
2CSY1023MC	2CSY1023MS		Single-pole spush switch with OFF	2CSY1632MY	YES	NO	NO
2CSY1008MC	2CSY1008MS		Double-pole push switch with key control	NO	NO	NO	NO
2CSY1009MC	2CSY1009MS		Double-pole push switch with universal key control	NO	NO	NO	NO
2CSY1028MC	2CSY1028MS		Single-pole push switch with „bell“ symbol	2CSY1632MY	YES	NO	NO
2CSY1029MC	2CSY1029MS		Single-pole push switch with „key“ symbol	2CSY1632MY	YES	NO	NO
2CSY1030MC	2CSY1030MS		Single-pole push switch with „stair light“ symbol	2CSY1632MY	YES	NO	NO
Screwless switches				Accessorizable with plug-in LED (230V)			
2CSY1001SC	2CSY1001SS		Switch	NO	NO	NO	NO
2CSY1002SC	2CSY1002SS		Double-pole switch	NO	NO	NO	NO
2CSY1001ZC	2CSY1001ZS		Single-pole switch, 2 modules	NO	NO	NO	NO
2CSY1003SC	2CSY1003SS		Two-way switch	NO	NO	NO	NO
2CSY1003ZC	2CSY1003ZS		Single-pole two-way switch, 2 modules	NO	NO	NO	NO
2CSY1010SC	2CSY1010SS		Intermediate switch	NO	NO	NO	NO
2CSY1010ZC	2CSY1010ZS		Single-pole intermediate switch, 2 modules	NO	NO	NO	NO
2CSY1005SC	2CSY1005SS		Single-pole push switch	NO	NO	NO	NO

Mylos - Technical details

Illumination of switches and selection of LED lamps

2

White <input type="checkbox"/>	Black <input checked="" type="checkbox"/>	Description	LED type		Possible signalling		
Switches with incorporated LED (230V)			Incorporated LED replaceable with		Night-time location (discordant load)	Functional (concordant load)	Location (always ON)
2CSY1004FC	2CSY1004FS	Single-pole switch	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			
2CSY1006MC	2CSY1006MS	Signalling double-pole switch always ON	NO		NO	NO	YES
2CSY1006FC	2CSY1006FS	Load signalling double-pole switch	NO		NO	YES	NO
2CSY1015FC	2CSY1015FS	Single-pole push switch	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			
2CSY1024MC	2CSY1024MS	push switch with red diffuser	NO		YES	YES	YES
2CSY1025MC	2CSY1025MS	push switch with green diffuser	NO		YES	YES	YES
2CSY1026MC	2CSY1026MS	push switch with yellow diffuser	NO		YES	YES	YES
2CSY1027MC	2CSY1027MS	push switch with white diffuser	NO		YES	YES	YES
2CSY1031MC	2CSY1031MS	Single-pole push switch with label holder plate, 2 modules	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			
2CSY1032MC	2CSY1032MS	Single-pole push switch with label holder plate, 3 modules	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			
Warning lights with incorporated LED (230V)			Incorporated LED replaceable with				
2CSY1310MC	2CSY1310MS	Orange warning light	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			
2CSY1311MC	2CSY1311MS	White warning light	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			
2CSY1312MC	2CSY1312MS	Red warning light	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			
2CSY1313MC	2CSY1313MS	Green warning light	2CSY1609MY	(9V)	YES	YES	YES
			2CSY1622MY	(12V)			
			2CSY1624MY	(24V)			

Mylos - Technical details

Control devices

Switches, two-way switches, intermediate switches, push switches

Area of application

Control (on and off) of ohmic-inductive loads:

- with filament and fluorescent lamps (corrected and uncorrected);
- dedicated circuits for powered equipment (aspirators, range hoods, shutters, blinds, fans, etc..) and controllable outlets.

To eliminate architectural barriers in creating installations, we recommend the use of illuminable switches (Article 4 of Italian Ministerial Decree no. 236 of 14.06.1989).

Technical specifications	
Rated voltage	250V~
Rated current	10A (16A for pushbuttons)
Opening distance of the contacts	> 3 mm
Dielectric strength	> 2000V~

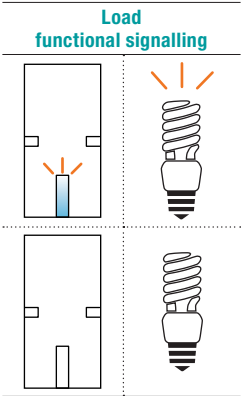
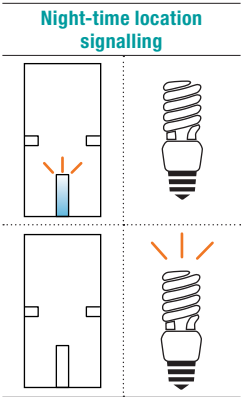
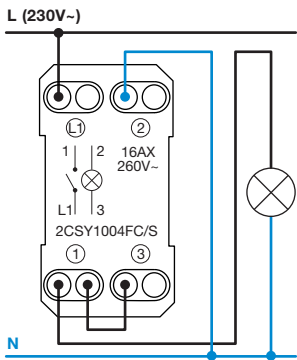
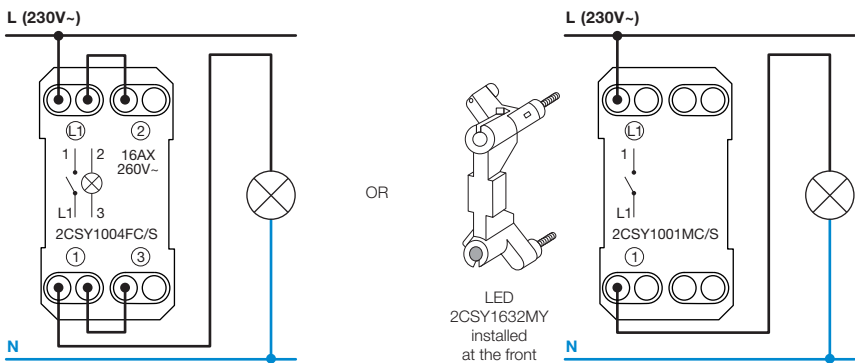
Reference standards

LV Directive, EN 60669-1.

Wiring diagrams

The diagrams provided below represent the most widely applied engineering solutions for creating lighting points and are to be considered exhaustive of the possible signalling solutions that can be implemented on switches.

Light control from one point

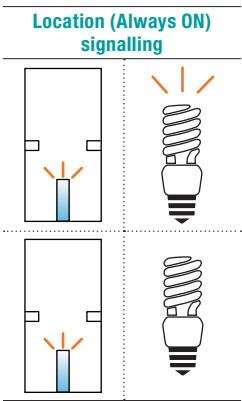
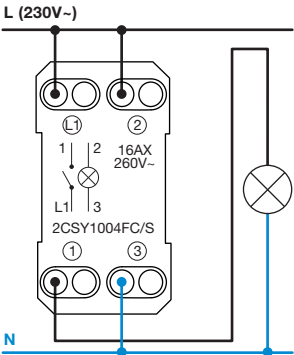


Mylos - Technical details

Control devices

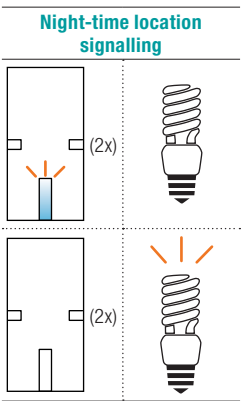
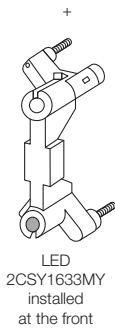
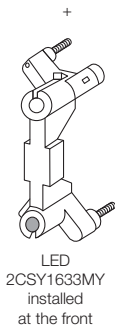
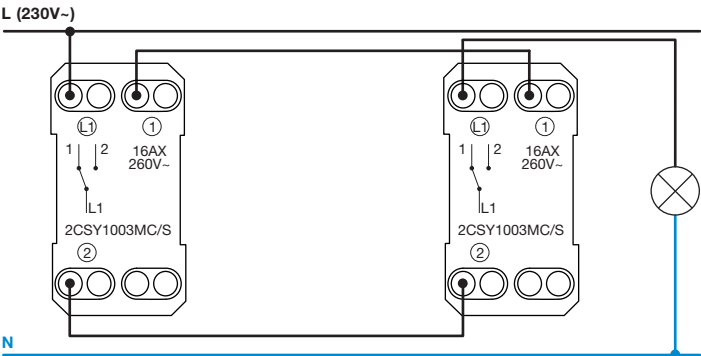
2

Light control from one point



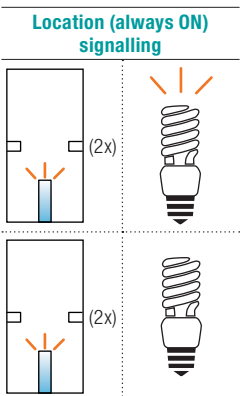
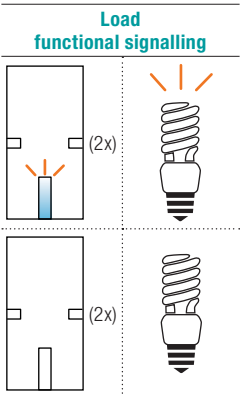
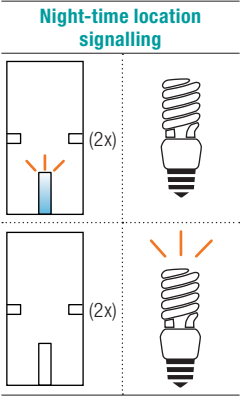
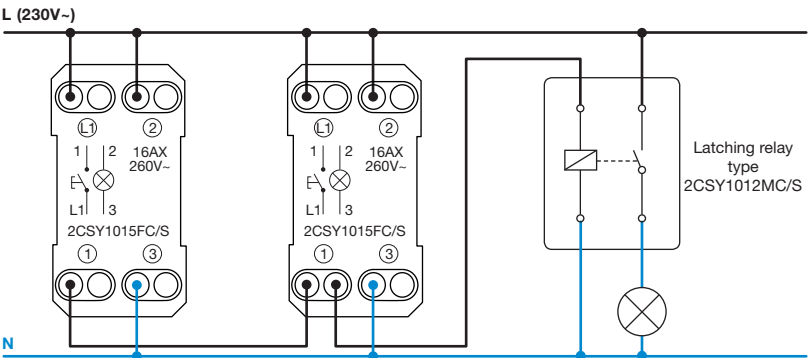
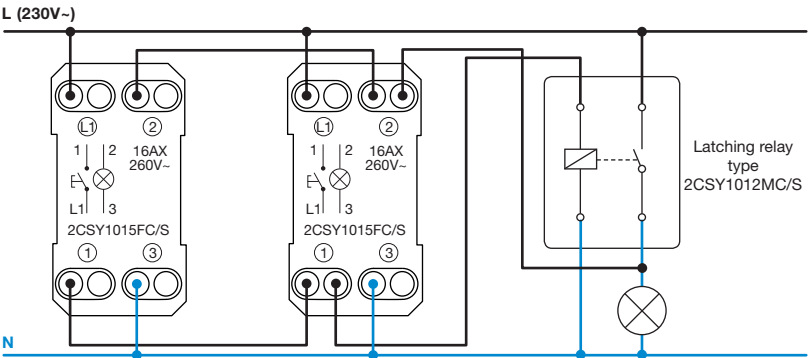
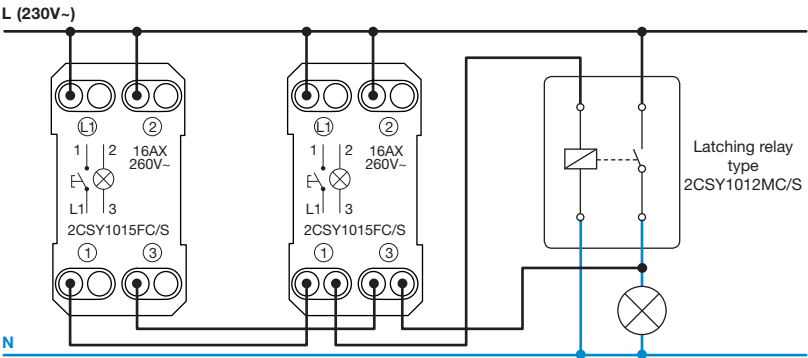
Light control from two points

Circuit with two two-way switches



Light control from two points

Circuit with push switches and relay

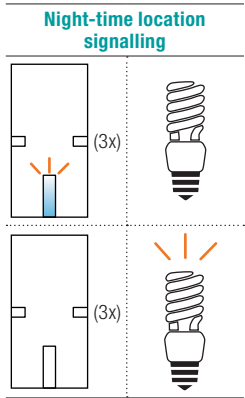
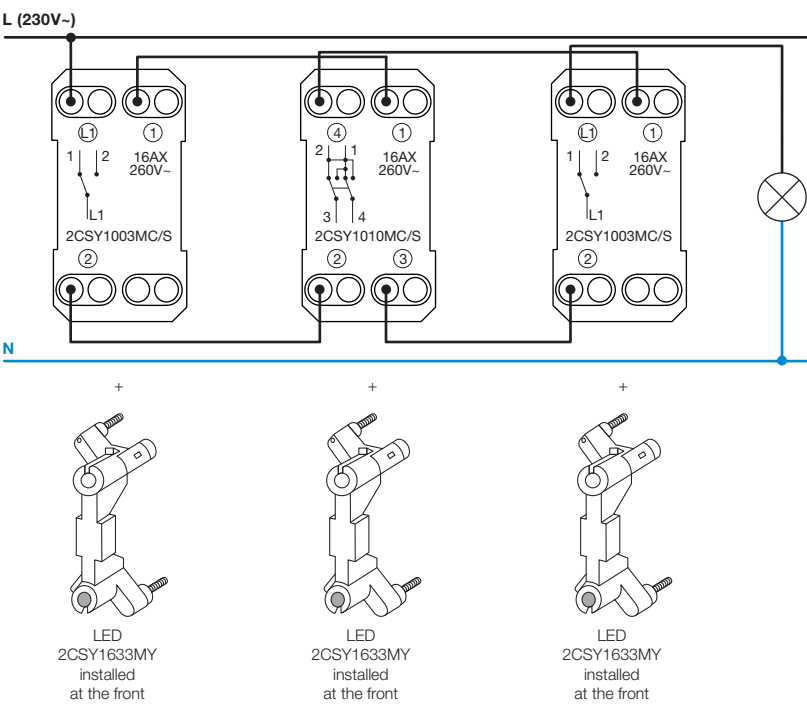


Mylos - Technical details

Control devices

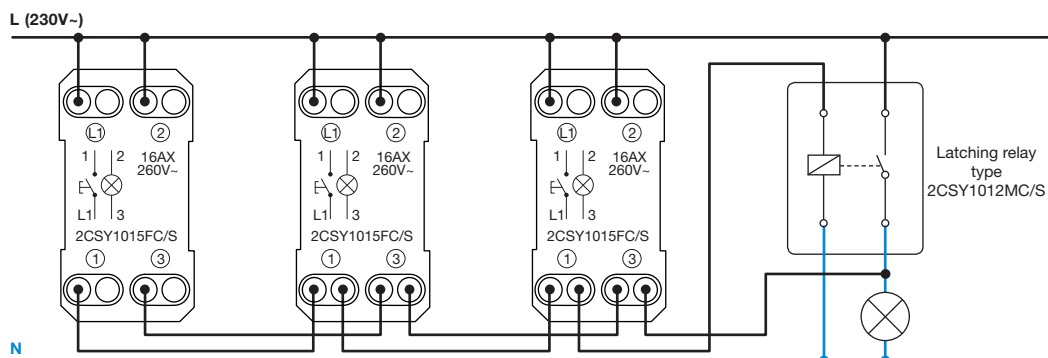
Light control from three points

Circuit with two two-way switches + one intermediate switch

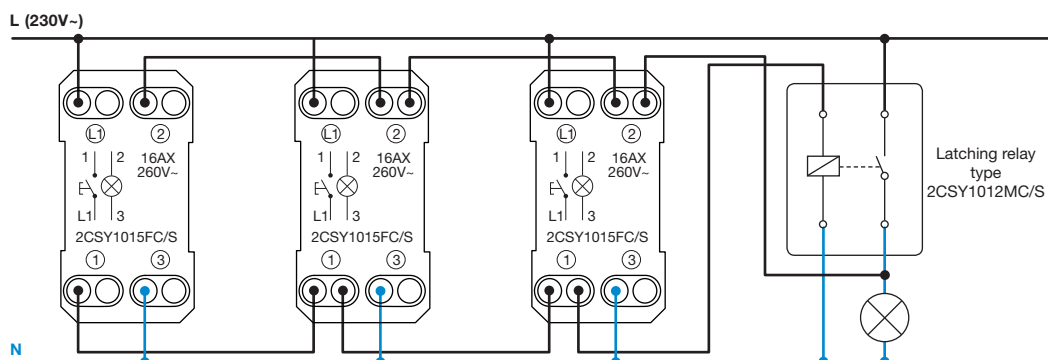
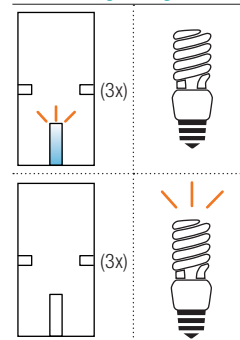


Light control from three points

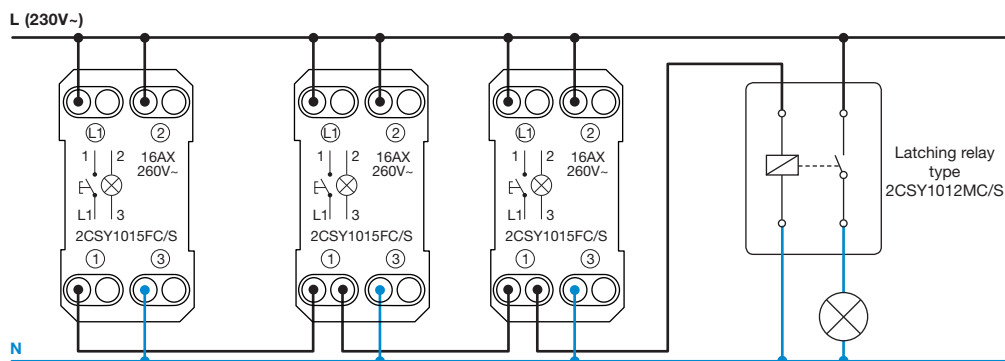
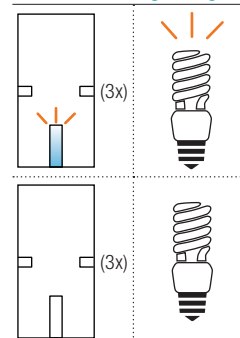
Circuit with push switches and relay



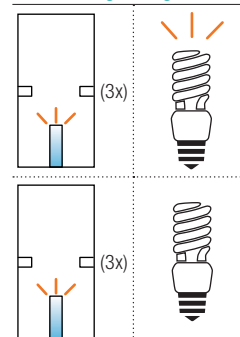
Night-time location signalling



Load functional signalling



Location (always ON) signalling



Mylos - Technical details

Control devices

Relays

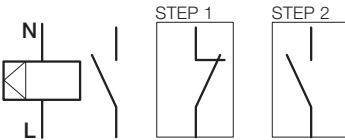
2

Description	Code
Single-pole latching relay, with 230V~ coil, output contact 10A	2CSY1012MC
	2CSY1012MS

Relay with latching operation for control and adjustment from multiple lamp points by means of single-pole push switches with NO (normally open) contact.

Wiring diagrams

2CSY1012MC - 2CSY1012MS



Technical specifications	
Power supply voltage (coil)	230V - 50/60Hz
Output contact	10A (AC1) 7A (AC15)
2CSY1012MC - 2CSY1012MS	

Reference standards

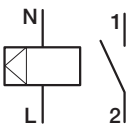
EN 60669-1, EN 60669-2-2.

Description	Code
Monostable relay, with 230V~ coil, output contact 10A	2CSY1014MC
	2CSY1014MS

For the implementation of automation or separations between the control circuit and power circuit. It can be used as an auxiliary element for controlling particular loads.

Wiring diagrams

2CSY1014MC - 2CSY1014MS



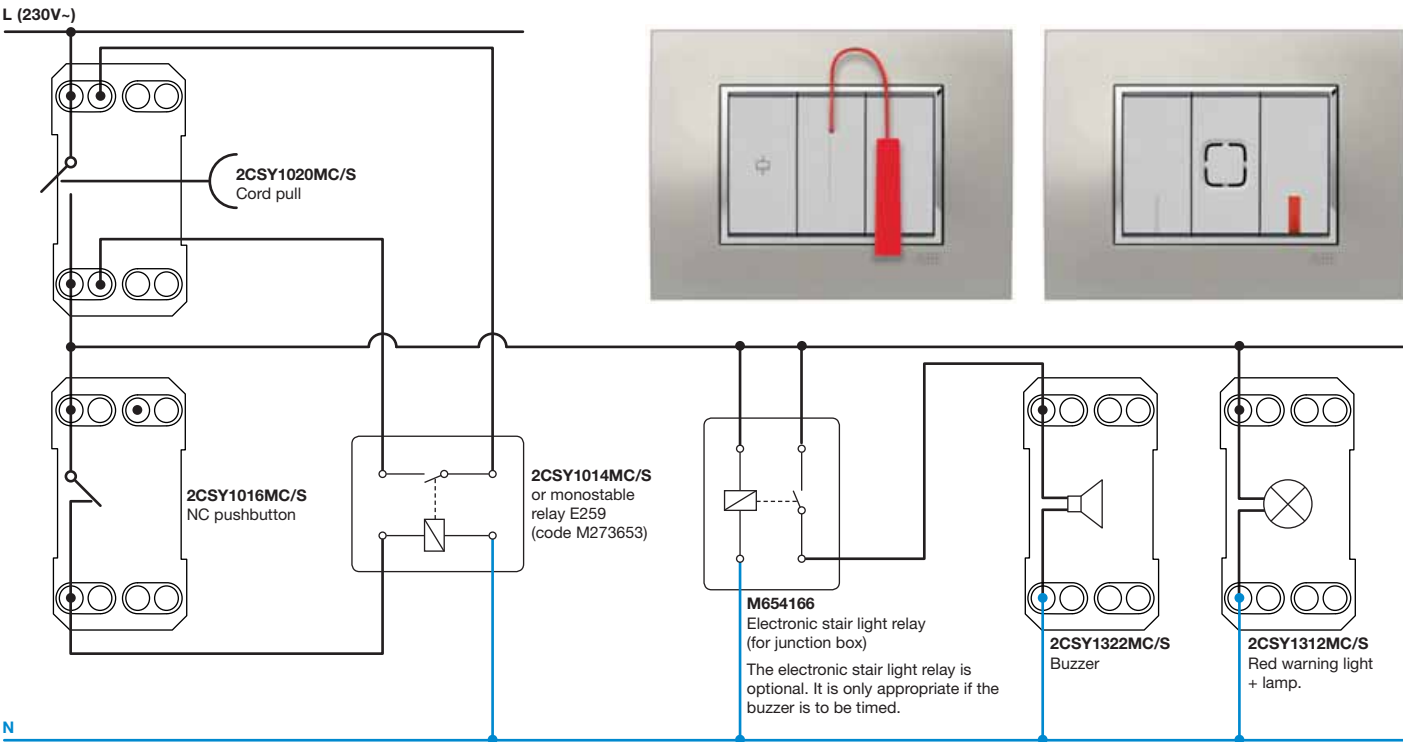
Technical specifications	
Power supply voltage (coil)	230V - 50/60Hz
Output contact	10A (AC1) 7A (AC15)
2CSY1014MC - 2CSY1014MS	

Reference standards

EN 60669-1, EN 60669-2-2, CEI EN 61810-1.

Examples of application

The flush-mounted relays of the Mylos wiring accessories' range can be used to implement a simple disabled bathroom calling system with a reset pushbutton:



Mylos - Technical details

Key covers

Key covers

Customization of switches' key covers

Mylos series allows customization of the control switches thanks to a wide choice of available key covers. Replacing them is very simple: it does not require the use of special tools and can be done without removing the switch from the support. Customization of control switches is possible both for devices with a one module key and for those with a half-module key.

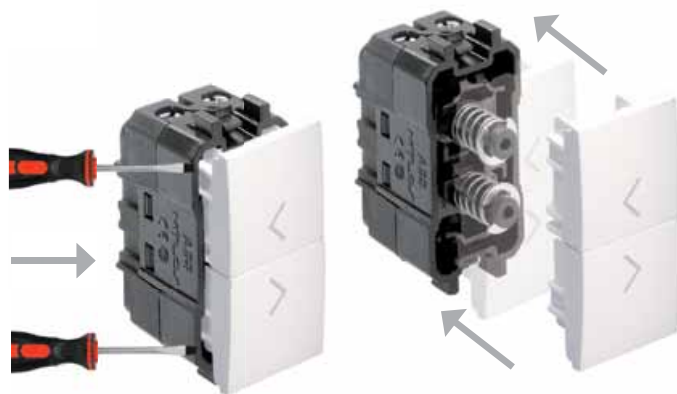
The range includes key covers with/without functional labels and with/without symbols.

Note: the screwless control devices on page 2/7 do not allow the replacement of key covers. Part codes 2CSY1011MC/S and 2CSY1018MC/S do not allow the replacement of key covers.

2



Standard key cover composition



Key cover composition on 2CSY1017MY



Key cover composition on 2CSY1027MY

Mylos - Technical details

Socket outlets

Plug sockets

Area of application

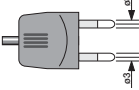
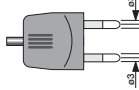
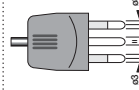
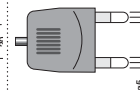
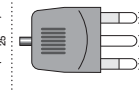
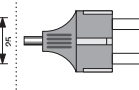
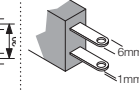
Powering of household appliances, lighting equipment etc.

Main features of Italian and German standard sockets



The cells of the sockets are segregated and protected when the plug is disconnected: the live parts are accessible only with the corresponding plug fully inserted.

Technical specifications	
Rated voltage	250V~
Rated current	10A o 16A
Shuttered and elastic live cells	



Possibility of coupling Mylos sockets with the various types of plugs on the market

	2P, 10A	2P, 2,5A	2P+T, 10A	2P, 16A	2P+T, 16A	Schuko 2P+T, 16A	American 2P, 15A
							

Plug sockets, 250V~, Italian standard with safety shutters

	P 11 2CSY1101MC 2CSY1101MS	■	■	■			
	P 17/11 2CSY1103MC 2CSY1103MS	■	■	■	■	■	

Plug sockets, 250V~, Italian/German standard with safety shutters and side/central earth

	P 30 2CSY1108MC 2CSY1108MS	■	■	■			■
	P 30/17 2CSY1109MC 2CSY1109MS	■	■	■	■	■	■

Special sockets

	Preso rasolo ⁽¹⁾ 2CSY1113MC 2CSY1113MS	■	■				■
--	---	---	---	--	--	--	---

⁽¹⁾ Shaver socket, European/American standard with insulating transformer 230V~ - 50/60 Hz

Reference standards

CEI 23-5, CEI 23-50, CEI 23-16 (IEC 60884-1).

Note: In general terms, no plug sockets of any standard for domestic use fall under the European low voltage directive, because there is no harmonized European standard for these types of sockets: in fact, each country has its own standard and therefore a single standard is impossible. For this reason the plug sockets do not bear the CE mark. All the sockets of the Mylos wiring accessories' range conforming to CEI 23-50 are however certified by IMQ as a further guarantee of their quality and compliance with standards.

Plug sockets for dedicated lines

Plug sockets for dedicated lines allow outlet points to be differentiated according to their particular application, avoiding incorrect connection of unsupported appliances. Different coloured enclosures (red, orange, green) distinguish them from common socket outlets.

There are as yet no standard regulations on the correspondence between the colour of the socket and the type of power supply. In order to distinguish the area of application, the following usage customs are adopted.

Red: continuous power supply with UPS (uninterruptible power supply) through an insulating transformer.

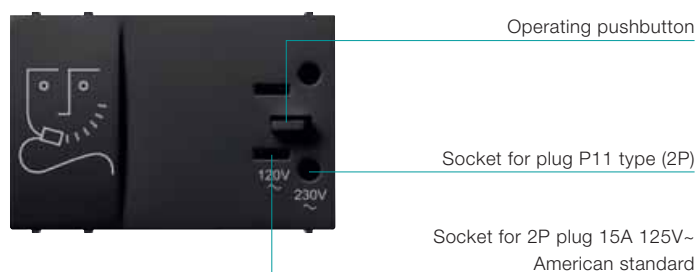
Orange: power supply protected by network-generator unit through an insulating transformer.

Green: safety power supply with network-generator unit.

Special sockets

Description	Code
2P shaver socket outlet with insulating transformer, power supply 230~ 50/60 Hz, output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket P11 type)	2CSY1113MC 2CSY1113MS

Components



The shaver socket incorporates an insulating transformer with a power rating of 20 VA, protected against overload and resistant to short-circuits.

Power supply is guaranteed by a pushbutton that is operated automatically whenever the plug is inserted in the socket.

The secondary circuit, to which the cells of the socket are connected, is isolated from the primary power supply circuit by double insulation:

additional protections (shutter devices) on the cells of the socket are therefore not necessary.

The socket is suitable for the insertion of Italian standard plugs of the P11 type (2P) and American standard plugs (2P). The shaver socket is protected against overload with a thermal interruption device without auto-reclosing. After the protection is tripped, the cells of the socket are not energized. To reclose the circuit, the plug of the device that caused the overload must be disconnected, waiting a few minutes in order to allow the transformer to cool down.

Technical specifications

Power supply	230 V~ 50-60 Hz
Output voltage	230 V~ for 2.5 A P11(2P) plugs 120 V~ for 15 A 125 V~ 2P plugs American standard with non-polarized flat pins
Available power	20VA
Operation with auto-protected	temperature

Reference standards

EN 61558-2-5, EN 61000-3-2, EN 55014-1, EN 55014-2.

Mylos - Technical details

Socket outlets

2

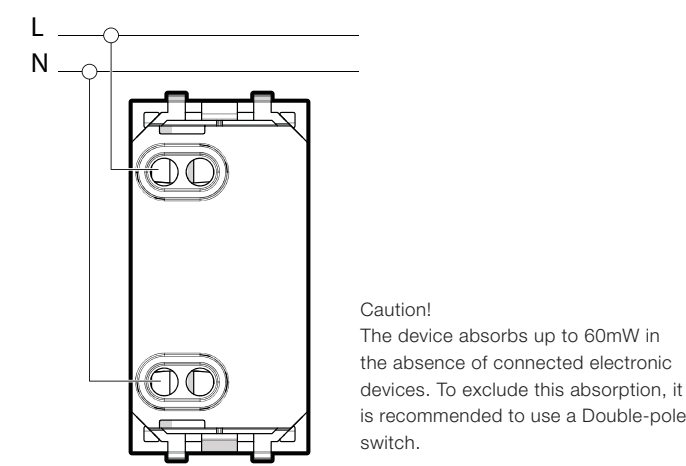
Description	Code
Flush-mounted USB charger 500-650mA, with male type A connector, power supply 230~ 50/60Hz, output voltage 5V DC	2CSY1160MC
	2CSY1160MS

Components



The flush-mounted USB charger allows you supply and recharge the most common portable electronic devices. With the simple use of a USB cable with Type A male connector it is possible to power mobile phones, smartphones, tablets and cameras that support standard USB power supply (up to 650mA), independently of the manufacturer.

Wiring diagrams

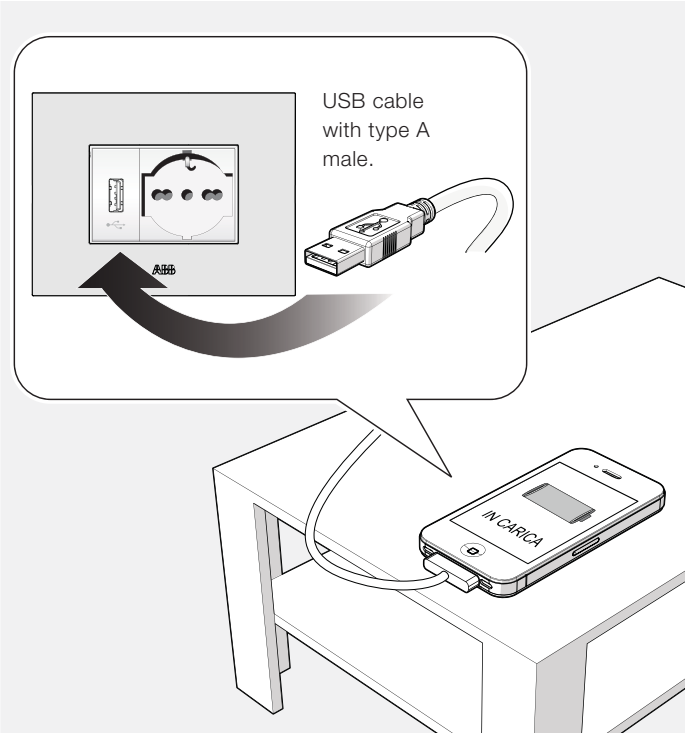


Operating method

Connect the USB cable with the type A male connector to the charger and the opposite end to the device to be powered. Type A, B, miniUSB and microUSB USB connectors can be used indifferently. The device is now being charged.

Caution: the device supplies power according to the USB data transmission protocol, with a maximum current of 650mA at 5V $\overline{\text{---}}$. Some devices may require a higher power supply current. Look up the manual of the connected device to check its absorption specifications. The charging time depends on the connected device and may vary compared with the original charger.

Examples of application



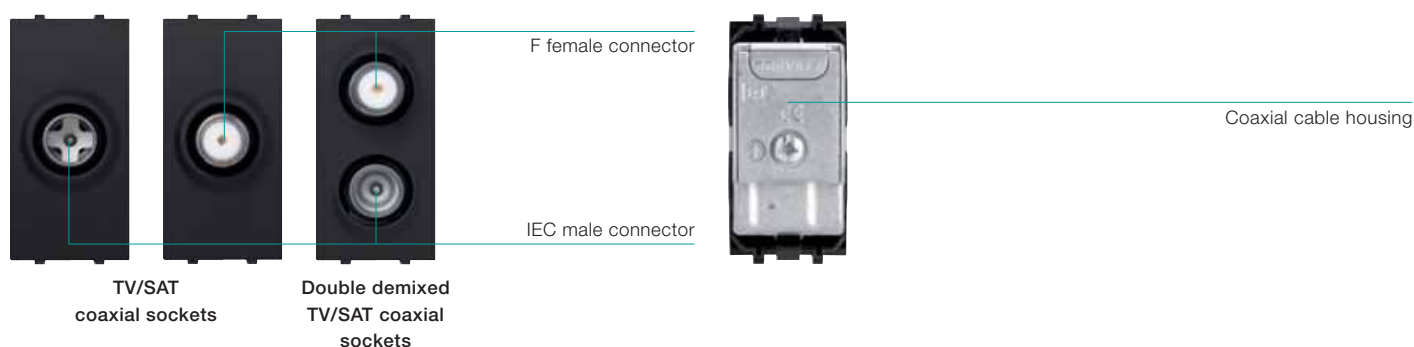
Technical specifications	
Power supply	125-250V - 50/60 HzMax
Input current	5A 230V
Output current	500-650mA a 5V DC
Max absorption in standby	60mW
Operating temperature	-20 +50°C
Storage temperature	-20 +80°C
Protection class	IP20
Place of use	indoors, dry
The device is protected against short-circuits by an internal fuse (not replaceable).	

TV/SAT sockets

The TV/SAT coaxial sockets for the Mylos series offer a complete range of products for implementing the terminal part of modern antenna systems. Manufactured fully from die cast Zama, they include a pressure terminal with safety screw in order to guarantee proper grip of the cable.

Individual sockets are available with male IEC or female F bushing, and double demixed sockets with both connection possibilities. Various levels of attenuation are available, ensuring that solutions are available for every type of installation.

Components



Attenuation values of the TV/SAT coaxial sockets

Code	Bushing	Passing attenuation [dB]			Bridging attenuation [dB]			Inverse attenuation [dB]	Direct current transit
		5÷40	47÷862	950÷2402	5÷40	47÷862	950÷2400		
		MHz	MHz	MHz	MHz	MHz	MHz		
2CSY1118MC/S	Male IEC Terr.	-	-	-	0.5	0.5	0.5	-	YES
2CSY1132MC/S	Male IEC Terr.	≤2	≤2	≤3	≤7	≤7	≤8	≥35	NO
2CSY1136MC/S	Male IEC Terr.	≤2	≤2	≤2.5	≤10.5	≤10	≤11	≥35	NO
2CSY1137MC/S	Male IEC Terr.	≤1.5	≤1.5	≤2.5	≤14.5	≤14	≤14.5	≥35	NO
2CSY1140MC/S	F Female	-	-	-	≤0,5	≤0.5	0.5	-	YES

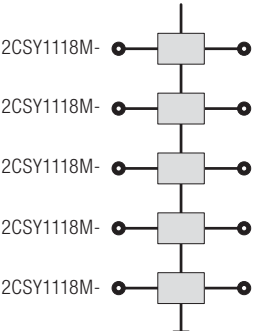
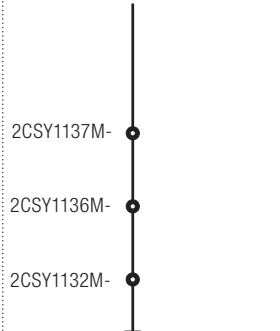
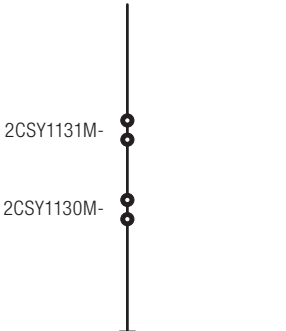
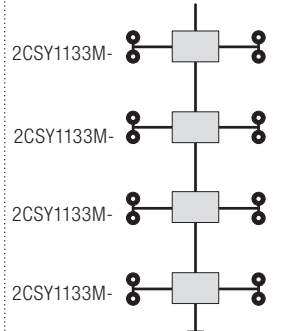
Attenuation values of double demixed TV/SAT coaxial sockets

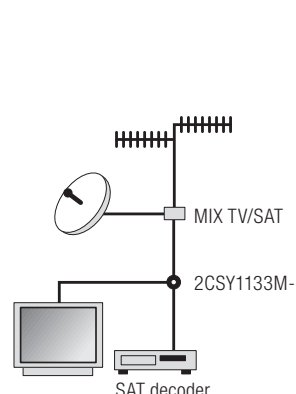
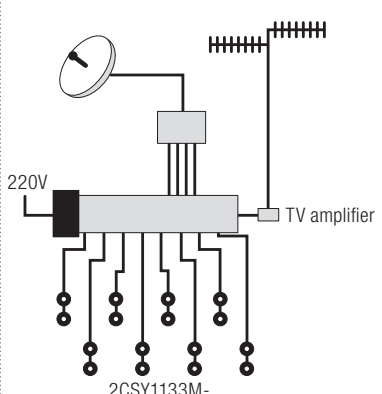
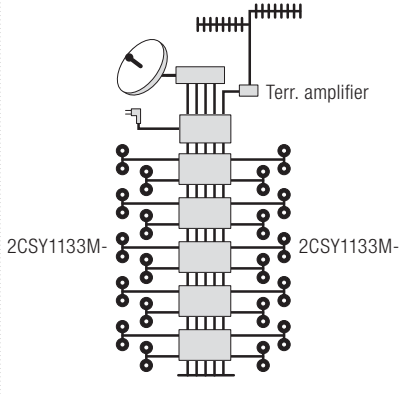
Code	Bushing	Passing attenuation [dB]		Bridging attenuation [dB]		Inverse attenuation [dB]	Direct current transit
		TV	SAT	TV	SAT		
2CSY1133MC/S	Male IEC Terr. F female SAT	-	-	≤2	≤2	-	YES
2CSY1130MC/S	Male IEC Terr. F female SAT	≤3	≤4.5	≤10	≤11	≥35	YES
2CSY1131MC/S	Male IEC Terr. F female SAT	≤2	≤3	≤14	≤15	≥35	YES

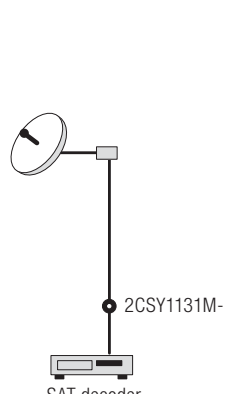
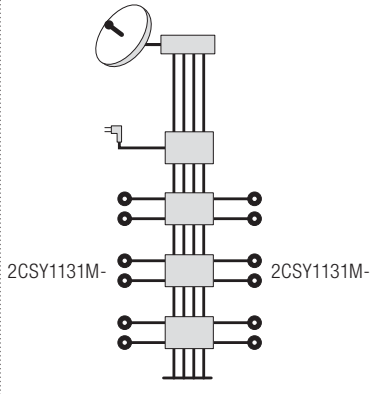
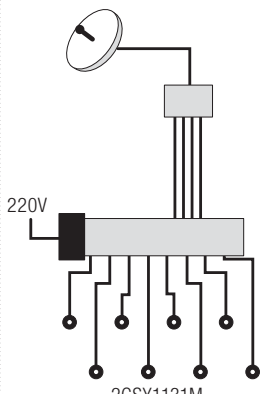
Mylos - Technical details

Socket outlets

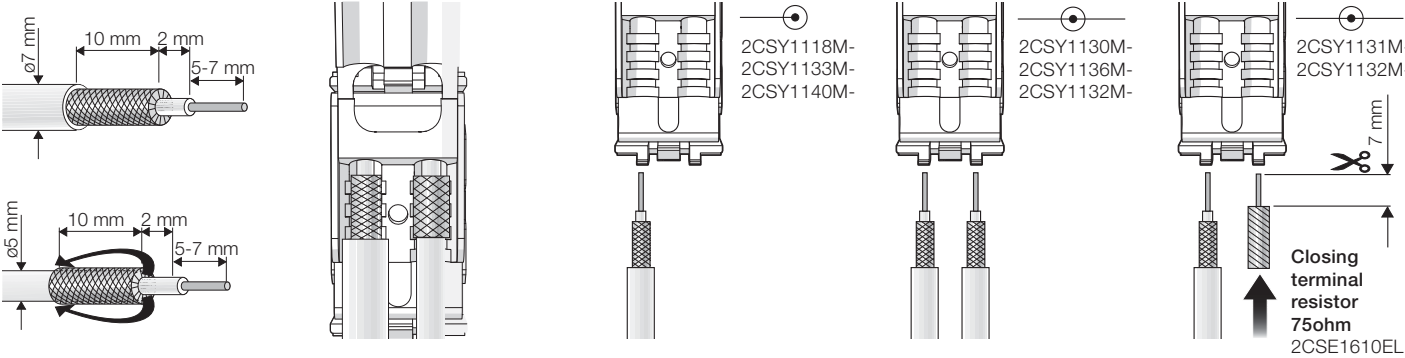
Wiring diagrams

TV		TV/SAT	
TV system with branched sockets from the central unit	TV system with feedthrough sockets from the central unit	TV/SAT system with feedthrough demixed sockets from the central unit	TV/SAT system with branched demixed sockets from the central unit
			

TV/SAT		
Mixed TV/SAT system, single consumption	Multiswitch radial TV/SAT system	SAT system, single consumption
		

SAT		
SAT system, single consumption	SAT and Multiswitch system	SAT and radial Multiswitch system
		

Instructions for installation



Technical specifications

Frequency range	from 5 to 2400 MHz
Coaxial cable diameter	from ø 5 to ø 7 mm
Return channel	from 5 to 40 MHz
Shielding	class A
Wiring system	with front panel
Unequal chrominance/ luminance delay	< 1 ns for all models
Relative humidity	max 93% (non-condensing)

Reference standards

EN 50083-1, EN 50083-2, EN 50083-4

Mylos - Technical details

Socket outlets

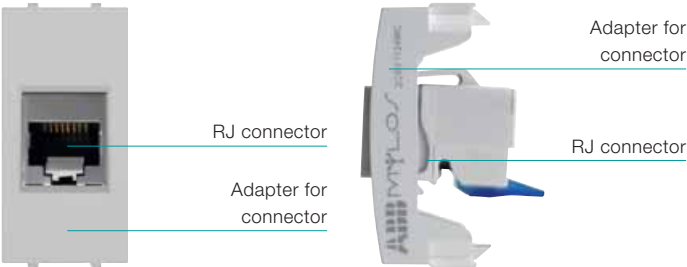
2

Network and telephone sockets

The range includes devices for the implementation of telephone and computer networks, RJ11 4-contact telephone connectors for telephones, telefax, modems and RJ12 6-contact telephone connectors for intercommunicating telephone installations.

RJ45 category 5e and 6 connectors are also available. These devices allow computer equipment (computers, modems, printers, etc) to be connected in a network and connection of multimedia devices.

Components



Code	Connector type	No. contacts	Cable type	Shielded	Category	Speed
2CSY1121MC/S	RJ11	4	twin core	NO	3	up to 16 Mb/s
2CSY1122MC/S	RJ12	6	twin core	NO	3	up to 16 Mb/s
2CSY1124MC/S	RJ45	8	UTP	NO	5e	up to 100 Mb/s
2CSY1125MC/S	RJ45	8	FTP	YES	5e	up to 100 Mb/s
2CSY1127MC/S	RJ45	8	UTP	NO	6	up to 10 Mb/s
2CSY1128MC/S	RJ45	8	FTP	YES	6	up to 10 Mb/s

FTP = cable shielded with aluminium tape
UTP = unshielded cable

Instructions for installation

Unshielded connectors:

1. wire the connector making sure that the connection terminals match;
2. operate the lever wiring device on the connector;
3. latch the connector on the adapter and proceed with the installation on the frame.

Shielded connectors:

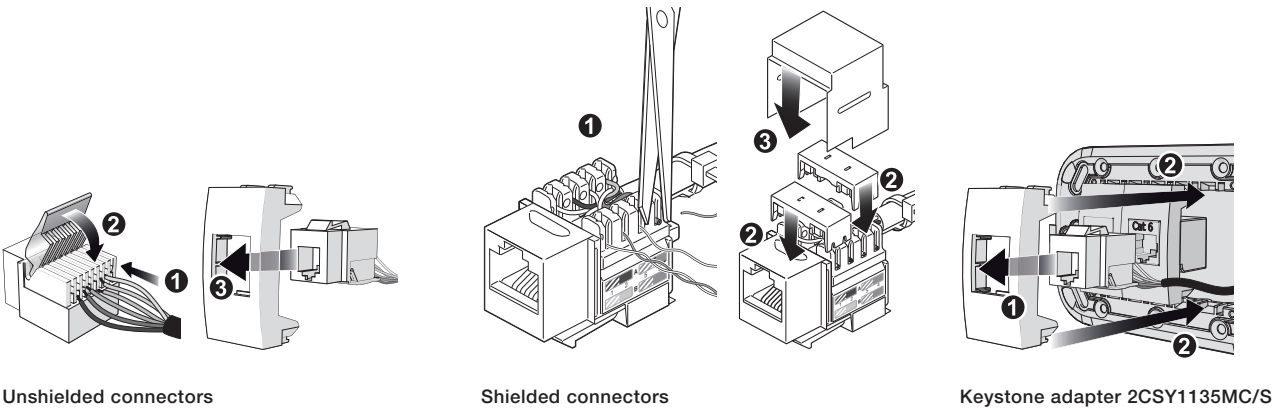
1. wire the connector making sure that the connection terminals match;
2. position the cover of the connector and squeeze with pliers to make sure the contacts are tight;
3. apply the shielding, ensuring insulation of the connector;
4. latch the connector on the adapter and proceed with the installation on the frame.

Keystone adapter 2CSY1135MC/S

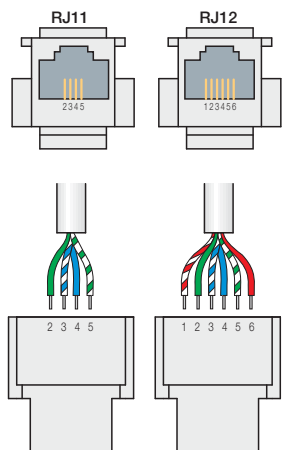
The structured wiring systems for data transmission are distinguished by their flexibility of use, installation independent of location and the use of the terminal outputs. The suppliers of components for wiring, when dealing with installations of a certain complexity and size, must be in able to show certification of conformity of the installation, directly or through accredited installations.

ABB meets this requirement with the adapter of the Mylos wiring accessories range, which is compatible with various Keystone coupling connectors available on the market and enables integration between the Mylos wiring accessories range and data transmission components of systems with structured wiring.

1. latch the connector on the adapter and proceed with the installation on the support.

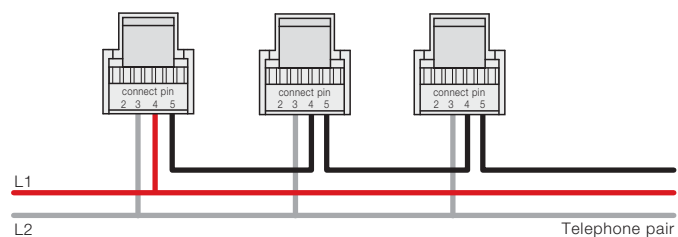


Wiring diagrams for RJ11 and RJ12 telephone connectors



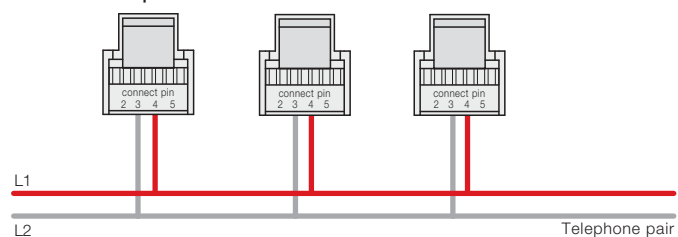
For telephone use, 2 wires of the RJ11 and RJ12 connectors, use the central contacts 3-4

Connection in series

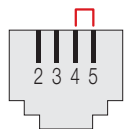


Terminals 3 and 4 are connected via the internal contact to the telephone (closed with the receiver hung up). Lifting the receiver causes interruption of the downstream line (L1), guaranteeing secrecy of the conversation.

Connection in parallel



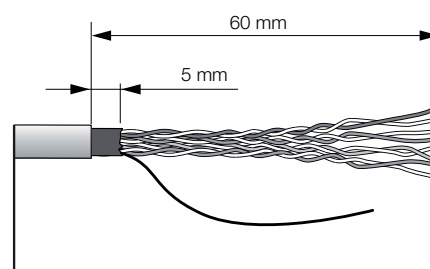
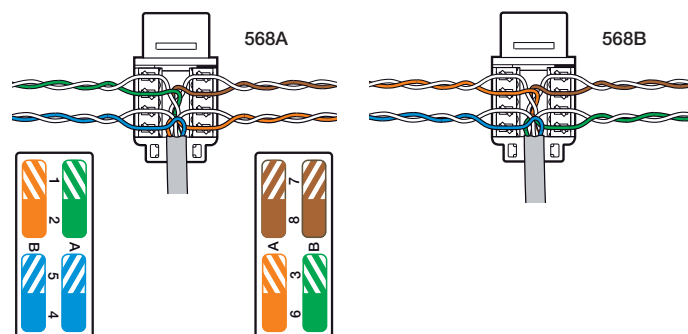
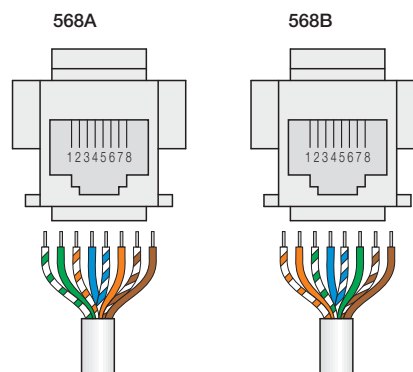
Each socket captures the line signal (there is no secrecy of conversation).



Note: extracting one of the plugs causes disconnection of sockets located downstream. In order to prevent this, you just need to insert a plug in the socket from which the telephone device was removed with a jumper between terminal 4 and 5.

Wiring diagrams for RJ45 data connectors

To obtain the EIA/TIA 568A or 568B configuration included below, follow the colour code shown on the terminal box.



Technical specifications

Connections	With perforated insulation
Conductors	non-buttet, inserted in the appropriate blade slots

Reference standards

EN 50083-1, EN 50083-2, EN 50083-4, ISO 11801.

Mylos - Technical details

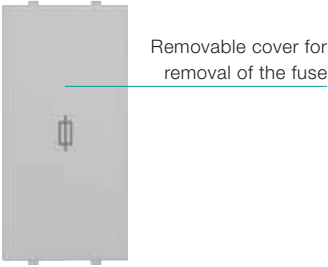
Protection devices

Fuse holders and overvoltage limiters

Description	Code
Fuse holder, Ø5x20 / Ø6.3x32, 16A	2CSY1301MC
	2CSY1301MS

2

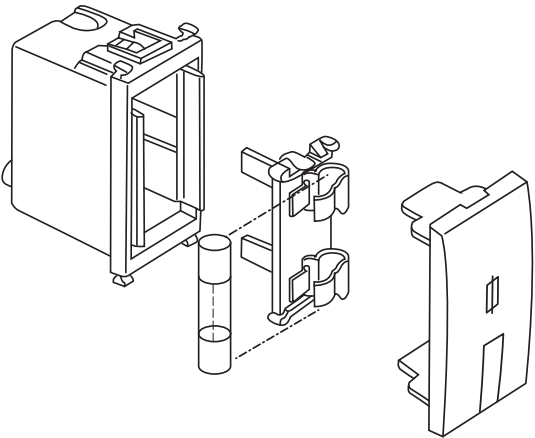
Components



Replacement fuses

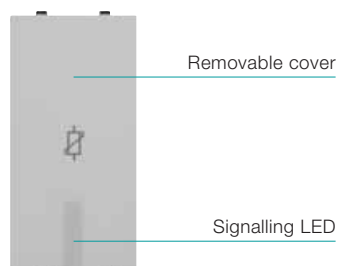
Fuses with dimension Ø5x20mm or Ø6.3x32 mm can be installed.
The use of the fuses on page 4/23 is recommended.

Replacement of the fuse
After removing the removable cover with a screwdriver, proceed with replacement as in the drawing:



Description	Code
Surge protection device limiter 75J, 250V~	2CSY1302MC
	2CSY1302MS

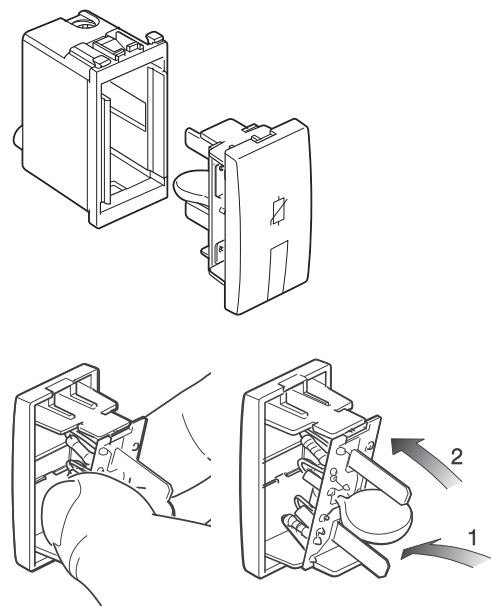
Components



This device provides protection for power supply sockets for all types of household appliances and in particular for those containing electronic components (Hi-Fi, TV, computers, video recorders, programming mechanisms, cash registers etc.) from damage caused by over-voltages present in power supply networks.

Instructions for installation and operation

The protection device is housed in the removable front cover. To replace it, after disconnecting the voltage from the installation, extract the cover from the limiter and separate the SPD block from the plastic cover, levering it with a screwdriver. Replace it with spare part 2CSY1302MY.

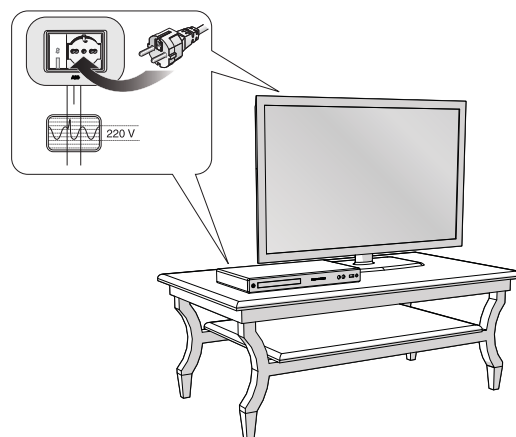


Functions

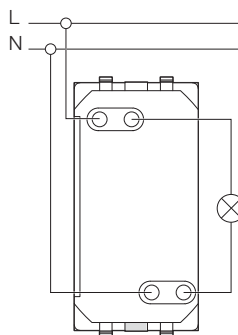
When the red warning light is on, it indicates that the protection has tripped and needs to be replaced (the load remains energised but it is not protected).

Examples of application

Over-voltages in domestic networks can be caused both by atmospheric interference and by control, operation or programming of connected inductive loads (air conditioners, burner motors, water pumps, reactors of fluorescent or discharge lamps, washing machines, etc.).



Wiring diagram



Technical specifications

Residual current limiting	protection (line-to-neutral)
Rated voltage (Un)	120-230 V~ 50/60 Hz
Number of ports	1
Rated load current IL	16 A
Max steady current (Uc)	250 V~
Test class	III
Protection level (Up)	< 1.2 kV
Test voltage of combined wave generator Uoc	2.5 kV
Rated flashover current (In)	1 kA (8/20 ns) 20 times
Max flashover current (Imax)	2 kA (8/20 ns) once
Temperature range	-5 °C - +40 °C
Internal integrated protection	fuse

Reference standards

LV Directive, Standard EN 61643-11

Mylos - Technical details

Protection devices

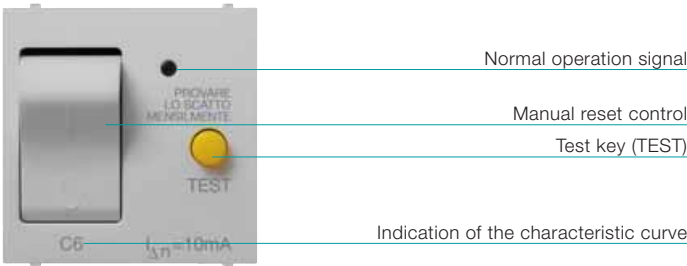
2

Miniature circuit-breakers and Residual current circuit-breakers

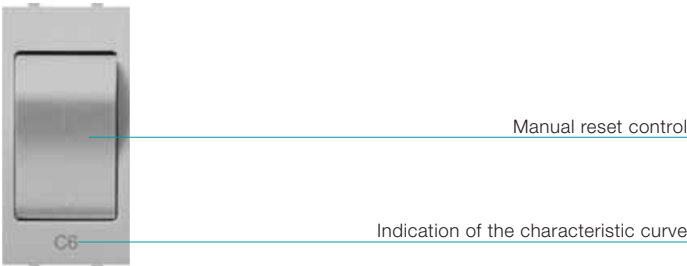
Description	Code
Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	2CSY1304MC
Automatic MCB, 1P+N, C10, breaking capacity 3kA	2CSY1304MS
Automatic MCB, 1P+N, C10, breaking capacity 3kA	2CSY1305MC
Automatic MCB, 1P+N, C16, breaking capacity 3kA	2CSY1305MS
Automatic MCB, 1P+N, C16, breaking capacity 3kA	2CSY1306MC
Automatic MCB, 1P+N, C16, breaking capacity 3kA	2CSY1306MS
Automatic RCD, 1P+N, C6 - 10 mA, breaking capacity 1.5kA	2CSY1307MC
Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2CSY1307MS
Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2CSY1308MC
Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2CSY1308MS
Automatic RCD, 1P+N, C16 - 10 mA, breaking capacity 3kA	2CSY1309MC
Automatic RCD, 1P+N, C16 - 10 mA, breaking capacity 3kA	2CSY1309MS

Components

Automatic RCD



Automatic MCB



Automatic MCBs and automatic RCDs provide protection against over-currents and earth fault currents of terminal circuits. Protection class with the device embedded in smooth vertical walls with the associated support, frame and blank covers, if required: IP41.

Instructions for installation and operation

- Use in dry and dust-free locations.
- Temperature between -5 °C and +40 °C.
 - Suitability for installation on the supply side of a socket or device for the protection against overloads and short circuits of the equipment and, at the same time, for protection of the users against contact voltages.

- The sensitivity (operating residual current) of 10mA and the suitability for operation also in the presence of non-sinusoidal fault currents (alternating currents mixed with unidirectional pulsating currents) allow the protection devices of the Mylos range to be classified as “type A RCBOs” (identified by the symbol), particularly suitable for the protection of:
 - terminal uses in rooms where there is a greater risk of electrocution (bathrooms, showers, kitchens etc.), as prescribed by the CEI standards;
 - class I consumer power sockets with electronic circuits (computers and accessories, electronic scales, electronic typewriters, cash registers etc.). In domestic and service industry networks non-sinusoidal fault currents are often present because of the use of electronic boards in domestic appliances.
- The electromagnetic part of the circuit breakers guarantees protection against overloads and short circuits; the residual current part of the devices, for current values of 10mA, guarantees protection of persons against the contact voltages.
- Closing the circuit: manually press the lever of the circuit breaker at the “I” symbol.
- Opening the circuit:
 - manually, by pressing the lever of the circuit breaker at the “0” symbol or the yellow test button (test);
 - automatically, due to thermal (overload), magnetic (short-circuit) or residual current (earth fault current) tripping.
- The device must not be used as a control breaker.
- To check that the circuit breaker is installed and behaving correctly, the yellow test button (test) must be pressed every month. If the device is correctly installed and powered, the circuit breaker trips; if it does not, you must immediately inform the installation technician because safety will be compromised. After the test, you need to press the main key near the “I” symbol in order to reset the circuit breaker.
- Thermomagnetic tripping with characteristic “C” (see the current-time tripping diagram provided below).
- Double-pole operation with one protected pole + N, type A for alternated fault currents and unidirectional pushbuttons.
- Operating residual current (sensitivity) I_{Δn} 10mA; the circuit breaker must be connected according to the electrical diagram provided below.

Functions

- Green front LED for signalling normal operation: presence of line voltage and closed circuit.
- Internal temperature checking: the circuit breaker automatically operates the opening of the circuit as soon as the safety threshold is exceeded.
- Self-test function to check the electrical continuity of the internal residual current circuit (in the absence of continuity, the circuit breaker will open).
- Opening the circuit if voltages occur higher than the predefined threshold at the circuit breaker input (for example, in 380V~ three-phase systems the circuit breaker prevents an erroneous “line-to line” connections, instead of “line-to-neutral”).

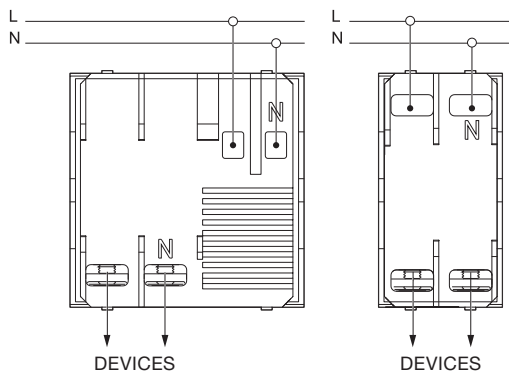
Characteristics

- Main lever operated control part: “I” symbol (closed circuit); “O” symbol (open circuit).
- Front LED for signalling the presence of line voltage and closed circuit
- Yellow test button (test) for checking that the device is functioning properly.
- Terminals protects with captive screws for clamping two conductors up to 4 mm² each.
- Construction of the thermomagnetic part as prescribed by Standards EN 60898 and IEC 60898.
- Construction of the residual current part according to Standards EN 61009 and IEC 61009.
- Power supply voltage: 120-230V~ ±10% 50-60Hz.

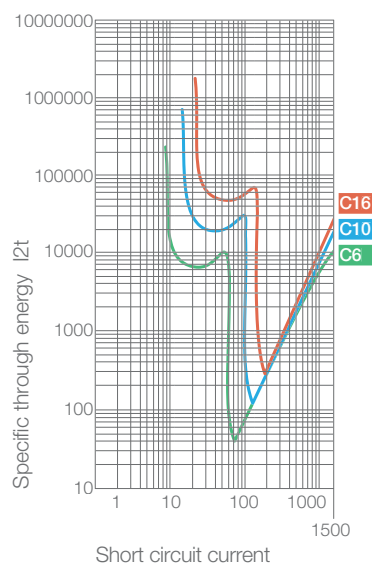
The supply line can be connected to either the upper or the lower terminals of the circuit breaker, which must be installed downstream of a general residual current circuit breaker (Standard CEI 64-8/5, paragraph 532.2.2.2).

The line voltage determines operation (Standard IEC 1009-1, paragraph 4.1.2).

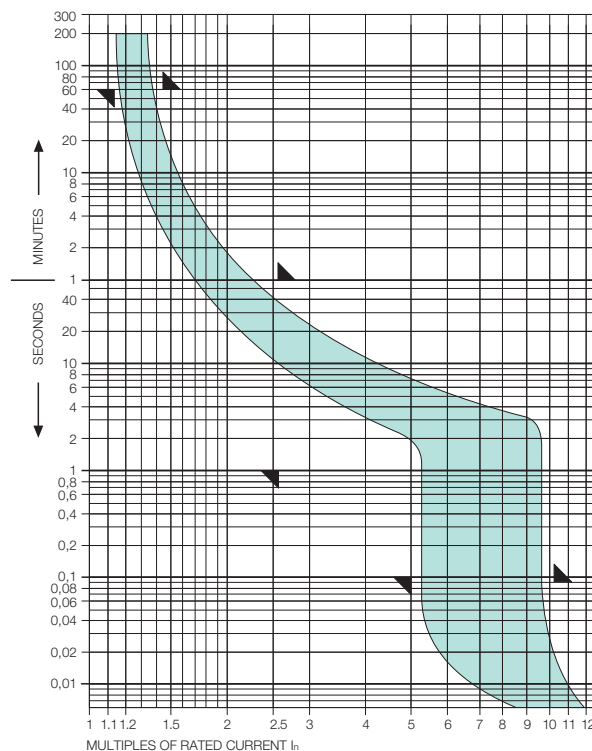
Wiring diagram



Characteristic curves



Current-time tripping diagrams for circuit breakers of the Mylos range

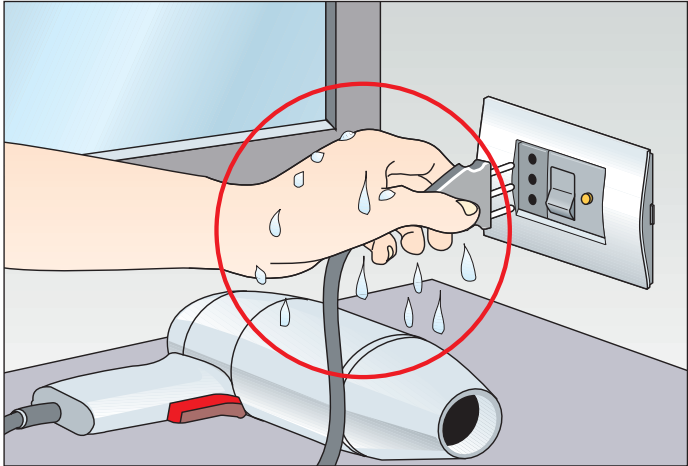
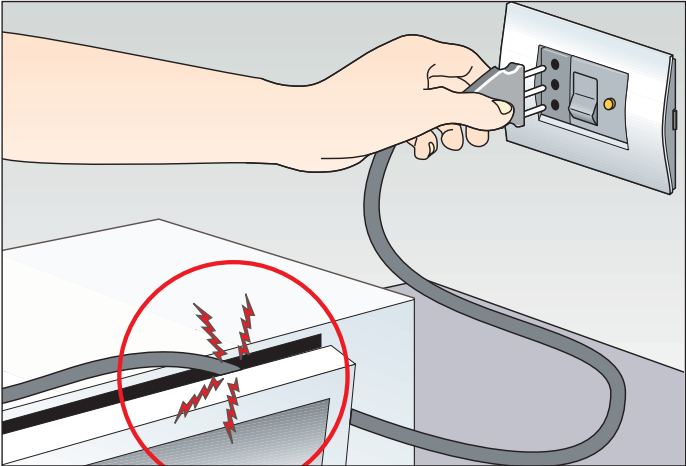


Mylos - Technical details

Protection devices

2

Examples of application



Technical specifications

Type of circuit breaker	MCB	RCD
Rated voltage	230V	230V
Rated frequency	50 ÷ 60Hz	50 ÷ 60Hz
Rated residual current	-	10mA or 30mA
Short-circuit breaking capacity	6A 1,500A 10A 3,000A 16A 3,000A	6A 1,500A 10A 3,000A 16A 3,000A
Rated currents	6 -10 -16A	6 -10 -16A
Number of poles	1P + N	1P + N
Tripping characteristic		
- Overcurrent protection	Type C	Type C
- Limitation class	3	3
- Residual current protection	-	Class A

Reference standards

Magnetotermico: EN 60898-1 - Differenziale: IEC 61009-1

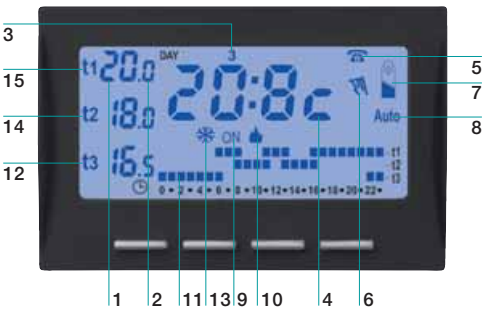
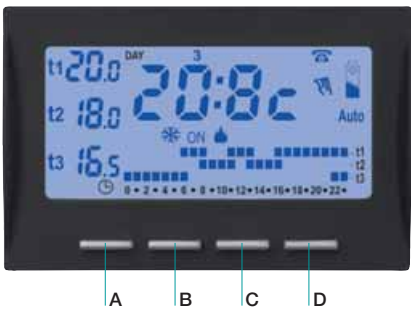
Mylos - Technical details

Safety and comfort devices

Thermostats and time-programmed thermostats

Description	Code
Electronic time-programmed thermostat, day/week programming, summer/winter function, with LCD display, 3 modules, powered by 1.5V AA batteries	2CSY1201MC
	2CSY1201MS

Components



External keys	
A	Key for selecting the SET temperatures: Comfort t1, Activity t2, Economy t3; adjustable from +5 °C to +39 °C
B	Key ▲ to raise the selected temperature
C	Key ▼ to lower the selected temperature Note: the ▲ and ▼ keys also perform many other functions purposely designed to facilitate the programming and use of the time-programmed thermostat (for example, setting the hour, minutes and day etc.)
D	Key for setting manual operation and deactivating the time-programmed thermostat (OFF)

Display	
1	Signalling the set temperature
2	Display in tenths of a degree
3	Days of the week
4	Current time or ambient temperature
5	Activation by telephonic programmer
6	Manual operation indicator
7	Symbol signalling run-down batteries (replace the batteries within 30 days of the alarm)
8	Intelligent operation (Auto)
9	Appliance in operation signal (for example, a boiler)
10	Active heating program
11	Thermal scale over 24 hours: ■ Upper digit = temperature t1 Comfort ■ Middle digit = temperature t2 Attività ■ Lower digit = temperature t3 Economy □ no Digit = temperature t* Anti-freeze The presence of 2 Digits one above the other is equivalent to HALF AN HOUR (1/2h) of operation for each type of temperature specified by the two digits. A flashing Digit indicates that the current time is set.
12	SET Temperature t3 Economy (saving)
13	Cooling program active
14	SET Temperature t2 Attività (precomfort)
15	SET Temperature t1 Comfort

The flush-mounted 3-module weekly time-programmed thermostat, battery powered (3V), suitable for heating and/or cooling systems, is equipped with a bright backlit display (timed) to monitor all its functions in real time. Easy programming is its essential feature. In fact, despite its complete set of functions, it is very easy to use. Various programs with 3 and 4 temperature levels are already set up in its permanent memory, designed to offer maximum comfort. However, it only takes a few seconds to choose your preferred temperatures throughout the entire day (even every

30 minutes) and for each day of the week. The time-programmed thermostat is factory set to regulate the temperature in a differential ON/OFF manner and is configurable from 0.2°C to 2°C so as to adapt to the thermal inertia of any system. Alternatively, you can select proportional operation with cycles of a duration that can be set (7-10-15-20 minutes). This system makes it possible to maintain the desired temperature more stable, increasing the feeling of comfort for the user and saving on energy consumption. In addition, the time-programmed thermostat can start up

Mylos - Technical details

Safety and comfort devices

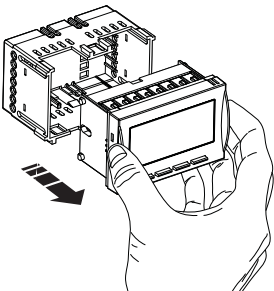
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in advance automatically (intelligent operation) so that the desired temperature can already be reached for a particular time.

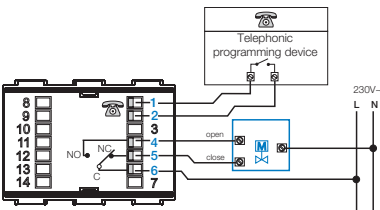
The set temperature scale is in degrees Centigrade (Celsius) and it is possible to calibrate temperature measurement by setting a correction value (by -1.9 to $+1.9^{\circ}\text{C}$). When changing over to degrees Fahrenheit, all the temperature settings configured are updated according to the new scale. Particular attention was also focussed on energy saving: the Holiday function, interruption for household cleaning, the optional locking of set temperatures, the anti-freeze temperature that is adjustable from 4 to 12°C , control via telephone (with optional telephonic programmer), all contribute to avoiding waste of energy with consequent financial savings.

Functional specifications

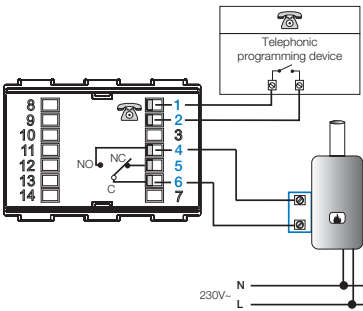
The time-programmed thermostat is equipped with a convenient removable front panel that allows the batteries to be replaced without interfering with electrical connections and in order to allow easier programming of the main functions.



Wiring diagram



Connection to a motorized valve and a telephonic programming device.



Connection to a boiler and a telephonic programming device.

Technical specifications	
Power supply	2 AA (LR6) 1.5V alkaline batteries (not included)
Battery life	approximately 2 years
Battery life from the moment the "run-down batteries" symbol	1 month
Blue display backlighting	time for 6 seconds from the last time that a key was pressed
Type of action, disconnection and device	1 / B / U / Electronic
Output type	relay with change-over contact COM / NO / NC, potential-free - max 8(2)A / 250 V ac
Software	class A
Rated pulse voltage	4kV
Cross-section of the cables at the terminals	0.75 mm ² ÷ 2.5 mm ²
Input for telephonic programming device	for potential-free NO contact
Type of insulation	class II
Protection class	IP30
Pollution level	normal
Ambient temperature display scale	$-5^{\circ}\text{C} \div +39^{\circ}\text{C}$
Ambient temperature indicator resolution	0.1 $^{\circ}\text{C}$
Temperature set adjustment range (t1/t2/t3)	$+5^{\circ}\text{C} \div +39^{\circ}\text{C}$
Temperature setting resolution	0.1 $^{\circ}\text{C}$
Temperature correction (Offset)	adjustable from -1.9°C a $+1.9^{\circ}\text{C}$ (default 0.0 $^{\circ}\text{C}$)
Anti-freeze temperature (t*)	adjustable from $+4^{\circ}\text{C}$ a $+12^{\circ}\text{C}$ (default 5 $^{\circ}\text{C}$)
Temperature adjustment method	
- DIFFERENTIAL (factory setting)	adjustable from 0.2 $^{\circ}\text{C}$ a 2 $^{\circ}\text{C}$ (default 0.6 $^{\circ}\text{C}$)
- PROPORTIONAL	cycles of 7-10-15-20 minutes can be set (default 10')
Thermal gradient	max 1 $^{\circ}\text{K}$ / 15 min
Operating temperature limits	$-5^{\circ}\text{C} \div +50^{\circ}\text{C}$
Storage temperature limits	$-10^{\circ}\text{C} \div +65^{\circ}\text{C}$

Reference standards

EN 60730-1/EN 60730-2-7/EN 60730-2-9

Description	Code
Electronic thermostat, summer/winter function, with LCD display, 3 temperature levels can be set, 3 modules, powered by 1.5V AA batteries	2CSY1202MC
	2CSY1202MS

Components



External keys

A	Mode key Pressed at rapid intervals for "User" settings: - operating mode with COMFORT temperature: WINTER (heating) or SUMMER (cooling) - operating mode with NIGHT-TIME REDUCTION temperature Winter or Summer - thermostat OFF mode Pressed at length (4 sec.) for "Installer" settings: - access the PROGRAMMABLE FUNCTIONS menu
B	UP key (▲) allows you to increase the value of a setting
C	DOWN keys (▼) allows you to decrease the value of a setting
D	OK key Pressed briefly: confirm the operation Prolonged pressing (4 sec.): exit from the PROGRAMMABLE FUNCTIONS menu

Display

1	Configured temperature setting: COMFORT or ECONOMY or ANTI-FREEZE
2	SUMMER mode (cooling)
3	Connected appliance operating signal (ON with ❄ symbol or 🔥 flashing)
4	WINTER mode (heating)
5	Night-time Reduction mode (saving)
6	Activation of the appliance connected to the thermostat through the telephonic programmer (optional)
7	Ambient temperature display
8	Low battery signal
9	Timed backlit display

The flush-mounted 3-module thermostat, battery powered (3V), suitable for heating and/or cooling systems, is equipped with a bright backlit display (timed) to monitor all its functions in real time.

The thermostat is factory set to regulate the temperature in a differential ON/OFF manner and is configurable from 0.2°C to 2°C so as to adapt to the thermal inertia of any system. Alternatively, you can select proportional operation with cycles of a duration that can be set (7-10-15-20 minutes). This system makes it possible to maintain the desired temperature more stable, increasing the feeling of comfort for the user and saving on energy consumption.

The set temperature scale is in degrees Centigrade (Celsius) and it is possible to calibrate temperature measurement by setting a correction value (by -1.9 to +1.9°C). When changing over to degrees Fahrenheit, all the temperature settings configured are updated according to the new scale. Particular attention was also focussed on energy saving: optional locking of set temperatures, anti-freeze temperature value adjustable from 4 to 12°C, control via telephone (with optional telephonic programmer), all contribute to avoiding waste of energy with consequent financial savings.

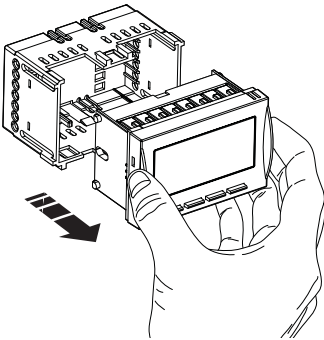
Mylos - Technical details

Safety and comfort devices

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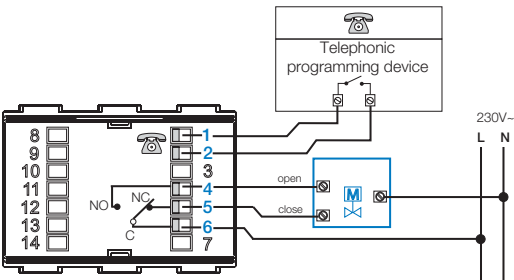
Functional specifications

The time-programmed thermostat is equipped with a convenient removable front panel that allows the batteries to be replaced without interfering with electrical connections and in order to allow easier programming of the main functions.

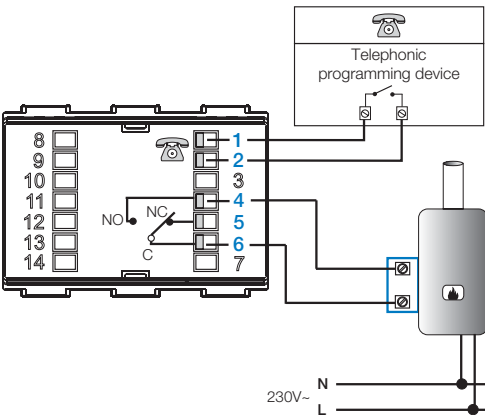


Wiring diagram

Connection to a motorized valve and a telephonic programming device.



Connection to a boiler and a telephonic programming device.



Technical specifications

Power supply	2 AA (LR6) 1.5V alkaline batteries (not included)
Battery life	approximately 2 years
Battery life from the moment that the "batteries run down" symbol lights up on the display	approximately 1 month
Blue display backlighting	timed for 6 seconds from the last time that a key was pressed
Software	class A
Rated pulse voltage	4kV
Type of action, disconnection and device	1 / B / U / Electronic
Output type	relay with change-over contact COM / NO / NC, potential-free - max 8(2)A / 250 V ac
Connection of a consumer (load)	2 or 3 conductors
Input for telephonic programming device	for potential-free NO contact
Cross-section of the cables at the terminals	0,75 mm ² ÷ 2.5 mm ²
Temperature levels that can be set	COMFORT / ECONOMY (saving) / ANTI-FREEZE (OFF)
Ambient temperature display field	0 °C ÷ +37.7 °C
Ambient temperature resolution	0.1 °C
T Set temperature adjustment field	+5 °C ÷ +37.7 °C (limitable)
COMFORT and ECONOMY SET temperature resolution	0.1 °C
Tolerance on temperature reading	± 0.5 °C
Ambient temperature reading correction (Offset)	adjustable from -2 °C a +2 °C (default 0.0 °C)
Anti-freeze temperature (t*)	+4 °C ÷ +12 °C (adjustable or excludable set) (default 4 °C)

Temperature adjustment method

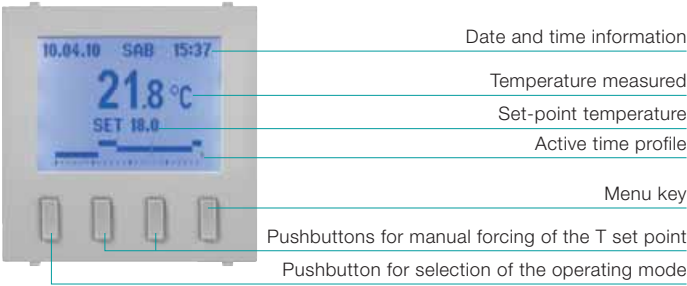
- ON/OFF with RCD	that can be set from 0.2 °C a 1.2 °C (default 0.5 °C)
- PROPORTIONAL with control frequency	that can be set from 7 to 20 minutes (default 10 minutes)
Thermal gradient	1°K/ 15 min
Protection class	IP30
Insulation class	II
Pollution level	normal
Operating temperature limits	0 °C ÷ +50 °C
Storage temperature limits	-10 °C ÷ +65 °C

Reference standards

EN 60730-1/EN 60730-2-9

Description	Code
Electronic time-programmed thermostat, day/week programming, summer/winter function, with LCD display, 2 modules, 230~ 50/60Hz power supply	2CSY1201XC
	2CSY1201XS

Components



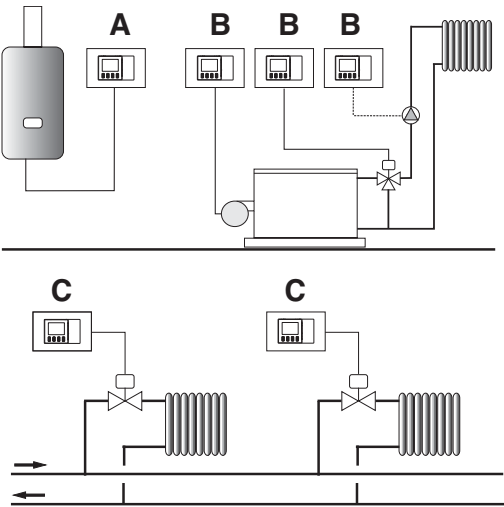
The Mylos 2-module time-programmed thermostat provides a simple solution to manage the thermoregulation of a home installation. It is possible to choose between operation in Summer or Winter mode and to define time-based operating programs, with a choice of 3 predefined programs or 4 user customizable programs. The additional Party and Holiday modes enable intuitive management of some common requirements in the house.

Examples of installation

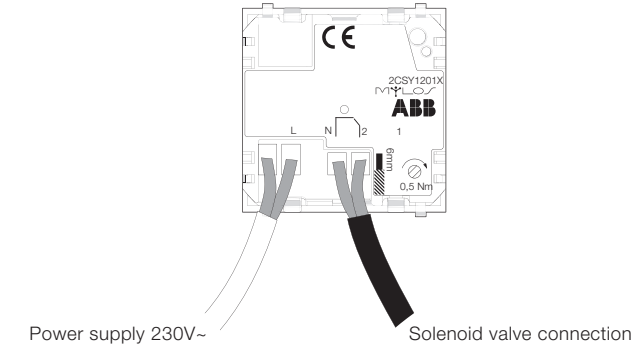
Caution: before carrying out the installation, deactivate the line voltage.

Heating systems with a time-programmed thermostat that controls:

- A) wall-mounted boiler;
- B) burner or circulation pump or motorized solenoid valve;
- C) zone solenoid valve.



Wiring diagram



Technical specifications

Power supply	250V~
Blue display backlighting	timed for 6 seconds from the last time that a key was pressed
Output type	with NO relay 10A res./ 4A ind. 250V~, potential-free
Connection of a consumer (load)	2 conductors
Cross-section of the cables at the terminals	0.75 mm² ÷ 1.5 mm²
Temperature levels that can be set	in addition to ANTI-FREEZE and TOO HOT
Ambient temperature display field	0 °C ÷ +37.7 °C
Ambient temperature resolution	0.1 °C
Tolerance on temperature reading	± 0.5 °C
Ambient temperature reading correction (Offset)	adjustable -3 °C ÷ +3 °C (default 0.0 °C)
ANTI-FREEZE temperature	adjustable 5 °C ÷ 40 °C (default 5 °C)
TOO WARM temperature	adjustable 5 °C ÷ 40 °C (default 35 °C)
ON-OFF regulation modes	adjustable hysteresis 0.1 °C ÷ 1 °C (default 0.1 °C)
PID-proportional regulation mode	time base 10 min, not adjustable

Reference standards

EN 60730-1/EN 60730-2-7/EN 60730-2-9

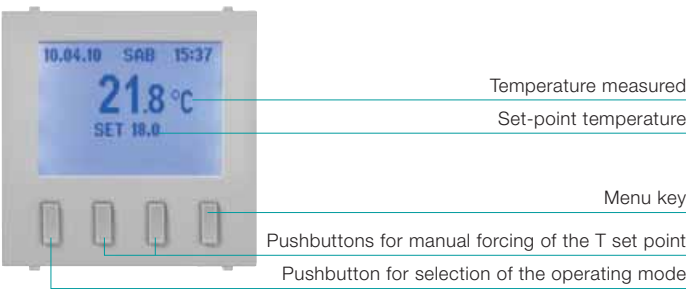
Mylos - Technical details

Safety and comfort devices

2

Description	Codice
Electronic thermostat, summer/winter function, with LCD display, 3 temperature levels can be set, 2 modules, 230~ 50/60Hz power supply	2CSY1202XC
	2CSY1202XS

Components



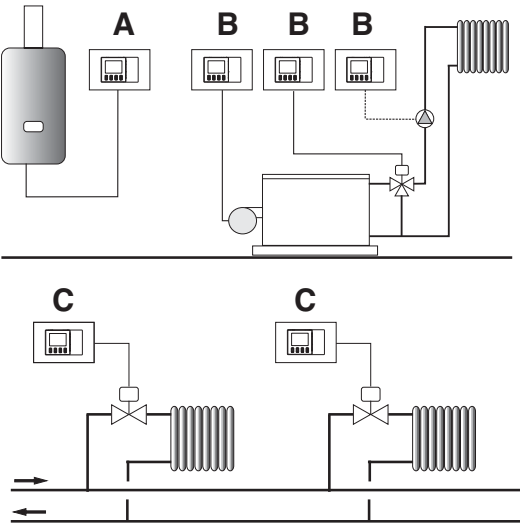
The Mylos 2-module thermostat offers a simple and compact solution to manage the main thermoregulation functions of the home installation. You can choose between operation in Summer or Winter mode and set 3 different operating modes (manual, anti-freeze, system off). The thermostat can regulate the temperature with ON/OFF control or proportional PID.

Examples of installation

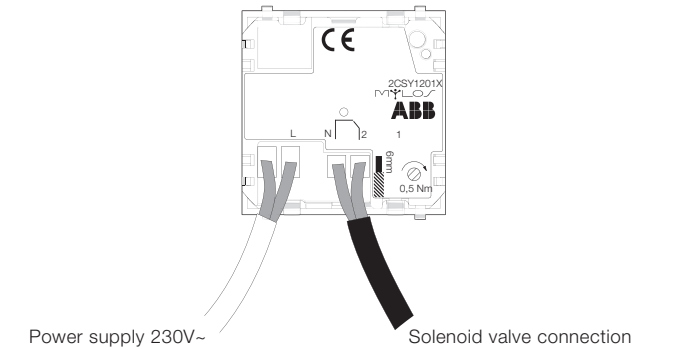
Caution: before carrying out the installation, deactivate the line voltage.

Heating systems with a time-programmed thermostat that controls:

- A) wall-mounted boiler;
- B) burner or circulation pump or motorized solenoid valve;
- C) elettrovalvola di zona.



Wiring diagram










Technical specifications	
Power supply	250V~
Blue display backlighting	timed for 6 seconds from the last time that a key was pressed
Output type	with relay with NO contact 10A res./ 4A ind. 250V~ potential-free (2CSY1202XC/S), on an actuator delocalized via bus (2CSYE1202C/S)
Connection of a consumer (load)	2 conductors
Cross-section of the cables at the terminals	0.75 mm ² ÷ 1.5 mm ²
Temperature levels that can be set	ANTI-FREEZE / TOO HOT
Ambient temperature display field	0 °C ÷ +37.7 °C
Ambient temperature resolution	0.1 °C
Tolerance on temperature reading	± 0.5 °C
Ambient temperature reading correction (Offset)	adjustable -3 °C ÷ +3 °C (default 0,0 °C)
ANTI-FREEZE temperature	minimum 5 °C (Default)
TOO WARM temperature	adjustable 5 °C ÷ 40 °C (default 35 °C)
ON-OFF regulation modes	adjustable hysteresis 0.1 °C ÷ 1 °C (default 0,1 °C)
PID-proportional regulation mode	time base 10 min, not adjustable

Reference standards

EN 60730-1/EN 60730-2-9

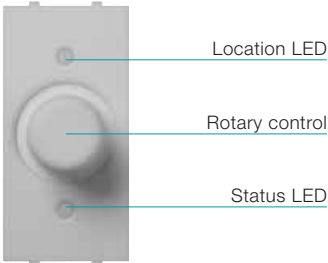
Dimmer

Loads that can be controlled with the dimmer

Dimmer type		Loads						
		Fluorescent filament or halogen lamps 230V	Fluorescent lamps	Toroidal transformers	Electronic transformers	Electro-mechanical transformers	Drills	Air agitators
Dimmer code	Description							
2CSY1205MC 2CSY1205MS	Electronic dimmer with rotary control	YES	NO	NO	NO	NO	NO	NO
2CSY1206MC 2CSY1206MS	Electronic dimmer with button control	YES	NO	YES	NO	YES	NO	NO
2CSY1207MC 2CSY1207MS	Electronic dimmer with rotary control and two-way switch	YES	NO	NO	NO	NO	NO	NO

Description	Code
Electronic dimmer with rotary control for resistive loads 100-500W 230V~ 50/60Hz	2CSY1205MC
	2CSY1205MS

Components



Electronic dimmer with rotary control for resistive loads 100-500W 230V~ 50/60Hz (visible in the dark).

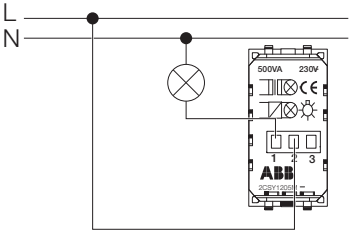
Operation

The load can be controlled and adjusted by rotating the knob. The light intensity of the location LED is attenuated as the brightness of the controlled lamps increases.

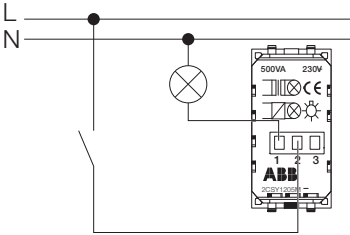
Wiring diagram

The connection can be made between phase and neutral or between phase and phase, always in series with the load.

Control with dimmer



Control with a switch and adjustment with a dimmer



Technical specifications		
Rated voltage	230V - 50/60Hz	110V - 50/60Hz
Resistive load power	100 - 500W	50 - 250W
Inductive load power	100 - 500VA	50 - 250VA
Technology	TRIAC	TRIAC
Operating temperature	-5 °C ÷ +35 °C.	
Adjustable load	Filament and halogen lamps	

Reference standards

CEI 23-9 (EN 60669-1)

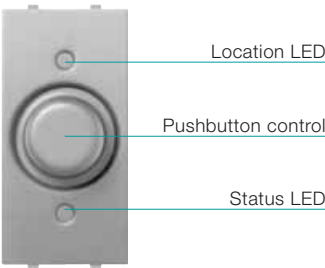
Mylos - Technical details

Safety and comfort devices

Description	Code
Electronic dimmer with pushbutton control for resistive and inductive loads 60-500W (60-500VA) 230V~ 50/60Hz	2CSY1206MC
	2CSY1206MS

2

Components



Electronic dimmer with pushbutton control for resistive and inductive loads 60-500W 60-500VA 230V~ -50/60Hz (visible in the dark).

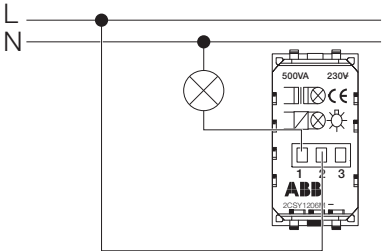
Operation

- The load can be controlled and adjusted using a pushbutton. The light intensity of the location LED is attenuated as the brightness of the controlled lamps increases. The load can be turned on, adjusted and turned off using the pushbutton present on the dimmer or with normal non-luminous NO pushbuttons connected to the dimmer.
- Storage of the adjustment set when the load was switched off (apart from network outages).
 - Switch-on and switch-off of the load is gradual.
 - Pressing the pushbutton quickly causes the load to be switched on or off. Adjustment is obtained by keeping it pressed. To reverse the direction of adjustment, interrupt and then resume pressing the pushbutton.
 - If the pushbutton is pressed approximately between 0.3 s and 1 s, the dimmer will light up the controlled lamps, automatically and gradually, to their maximum brightness.

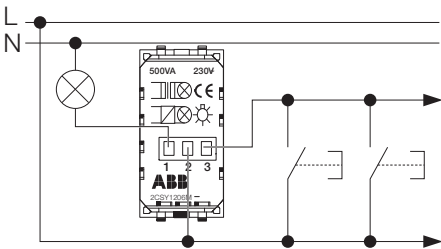
Wiring diagram

The connection can be made between phase and neutral or between phase and phase, always in series with the load.

Control and adjustment with a dimmer pushbutton



Control and adjustment with a dimmer pushbutton and NO button connected in parallel



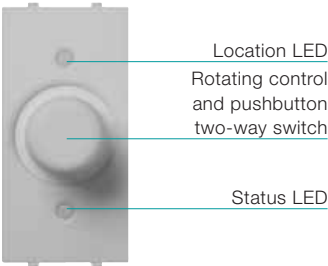
Technical specifications		
Rated voltage	230V - 50/60Hz	110V - 50/60Hz
Resistive load power	60 - 500W	30 - 250W
Inductive load power	60 - 500VA	30 - 250VA
Technology	TRIAC	TRIAC
Operating temperature	-5 °C ÷ +35 °C.	
Adjustable load	Filament and halogen lamps, ferromagnetic transformers for halogen lamps	

Reference standards

CEI 23-9 (EN 60669-1)

Description	Code
Electronic dimmer with rotary control and two-way switch for resistive loads 100-500W 230V~ 50/60Hz	2CSY1207MC
	2CSY1207MS

Components



Electronic dimmer with rotary control and two-way switch for resistive loads 100-500W 230V~ -50/60Hz (visible in the dark).

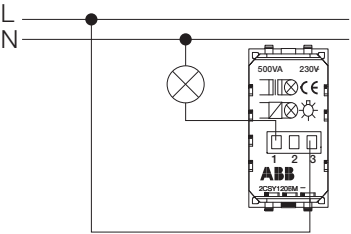
Operation

The load is controlled directly by means of a pressed two-way switch. Adjustment is performed by rotating the knob. The light intensity of the location LED is attenuated as the brightness of the controlled lamps increases. Once the desired lighting level has been set, pressing the knob will switch the light source off, while pressing it again will switch it back on at the set lighting level.

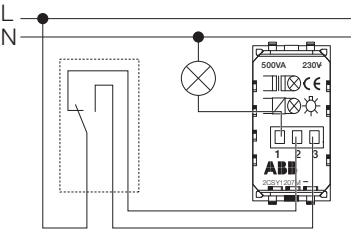
Wiring diagram

The connection can be made between phase and neutral or between phase and phase, always in series with the load.

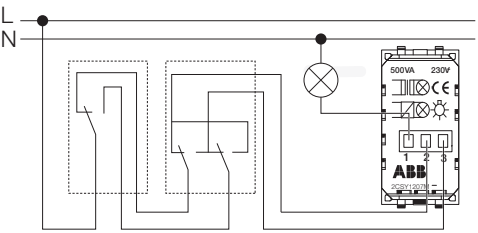
Control and adjustment with a dimmer



Control with two-way switch and dimmer, adjustment with dimmer



Control with two-way switch, intermediate switch and dimmer, adjustment with dimmer



Technical specifications

Rated voltage	230V - 50/60Hz	110V - 50/60Hz
Resistive load power	100 - 500W	50 - 250W
Inductive load power	100 - 500VA	50 - 250VA
Technology	TRIAC	TRIAC
Operating temperature	-5 °C ÷ +35 °C.	
Adjustable load	Filament and halogen lamps	

Reference standards

CEI 23-9 (EN 60669-1)

Mylos - Technical details

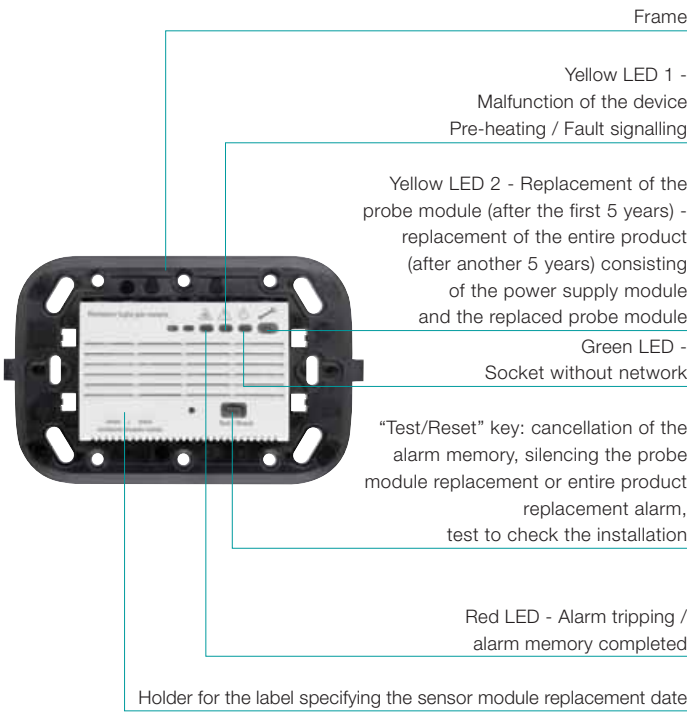
Safety and comfort devices

2

Gas detectors

Description	Code
Natural gas electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact	2CSY1210MC
6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz.	2CSY1210MS
Equipped with dedicated frame for installation on type 503 box	
LPG gas presence electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact (AC1)/	2CSY1211MC
2A (AC15) - 250V~. Power supply 230V~ - 50Hz.	2CSY1211MS
Equipped with dedicated frame for installation on type 503 box	

Components

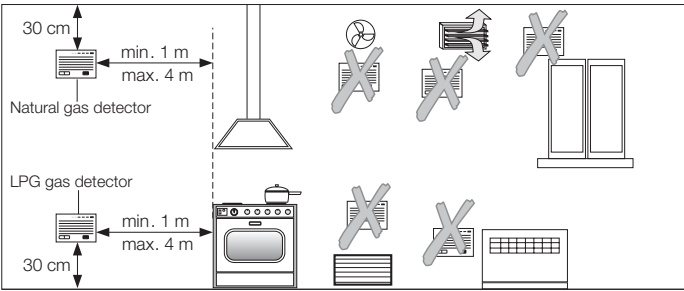


The wiring accessories' natural gas (CH₄) or LPG gas detectors, flush-mounted with 3 modules (503 box embedded in the wall) contribute to guaranteeing the safety of civil environments where gas operated domestic appliances are installed, such as: boilers, cookers.

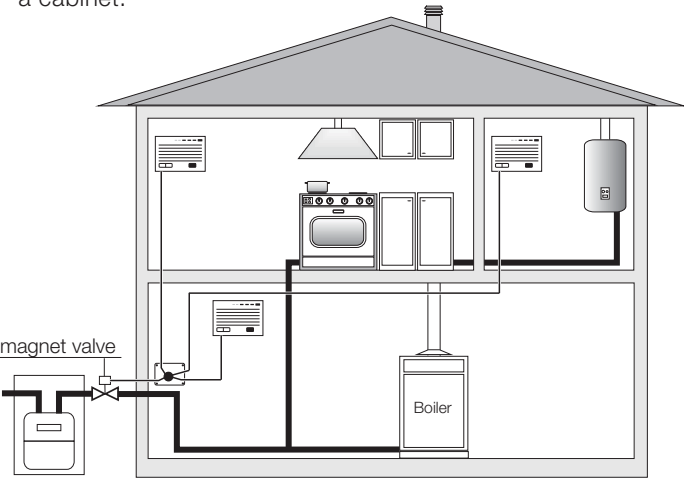
The equipment consists of a fixed power supply module and removable sensor module, which must be replaced after 5 years of continuous use. This allows a saving on the purchase and installation costs, with a lower impact on the environment due to the extension of the life time of the power supply/relay module for a further 5 years.

Positioning of the detector

The installation of the gas detector does not exonerate users from observance of all current laws and standards in the country of installation regarding the specifications, installation and use gas powered equipment, the ventilation of rooms and the release of combustion products.



- Install the natural gas detector at a maximum of 30 cm from the ceiling
- Install the LPG detector at a maximum of 30 cm from the floor surface.
- Install the detectors between 1 m and 4 m from the gas appliances..
- Do not install the detectors outdoors or in places exposed to atmospheric agents
- Do not install the detectors close to: sinks, air intakes, heating and air conditioning devices, windows and ventilation devices; in addition, the detectors must not be installed in closed spaces, such as behind a curtain or inside a cabinet.

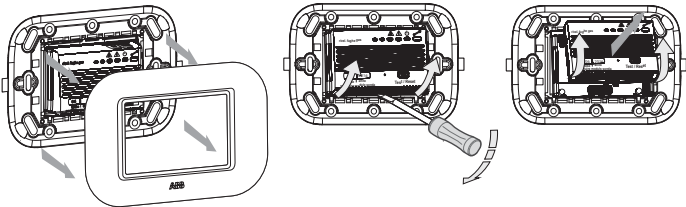


Illustrative example: installation with 3 gas detectors (natural gas) that command the solenoid valve for shutting off the gassupply.

Extraction of the probe module (for example: to replace it)
CAUTION: always deactivate the line voltage 230V~

- 1. Remove the frame.
- 2. Delicately insert the flat blade of a small screwdriver and use it as a lever to uncouple the sensor module.
- 3. Rotate the sensor module upwards in order to uncouple it completely.

Replacement sensor modules:
2CSY1220MC/S: Natural Gas replacement probe module
2CSY1223MC/S: LPG Gas replacement probe module



Characteristics

- Devices equipped with a control circuit with microprocessor that performs self-diagnosis tasks to ensure the perfect efficiency of the sensor over time.
- Sensor equipped with a special selective filter in order to avoid alarms in response to the presence of gas vapours that are not meant to be detected, such as steam from cooking, vapours from cleaning fluids etc.
- Devices equipped with an operating time meter, in order to signal the necessary replacement of the sensor module after the firsts 5 years of use.
- Luminous (red LED) and acoustics alarm signal.e.
- TEST (to verify that the device is operating properly) and Reset system with a single pushbutton.
- The gas detectors are equipped with an output relay that can command a valve to shut off the distribution of gas.

Key to signals

Luminous LED	Acoustic BUZZER
off	off
flashing	intermittent
on, fixed	-

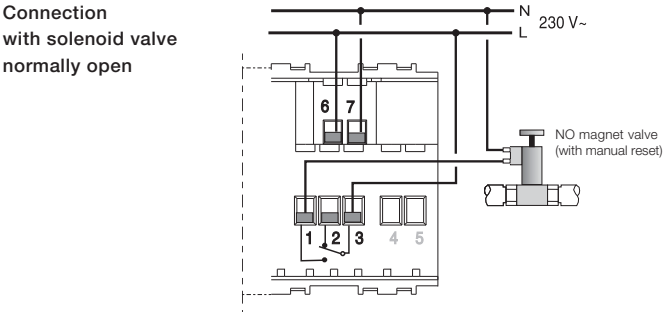
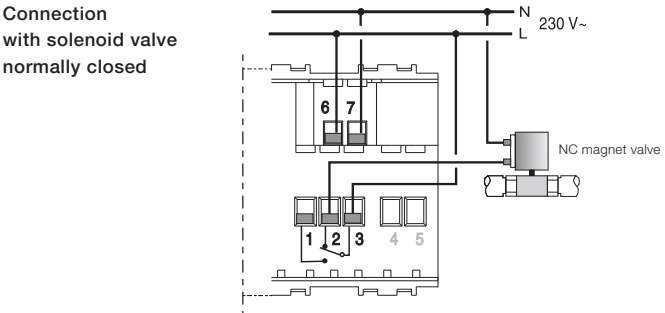
Reference standards

LVD CEI 216-8 - EMC EN 50270

Wiring diagrams

CAUTION: the power supply network must incorporate a device to guarantee omnipolar disconnection.
The detector must be powered by a voltage of 230V~ 50Hz with continuity in order to guarantee maximum safety and correct signalling of replacement within the declared time limits.
For the electrical connections, bring cables with a maximum cross-section of 2.5 mm² to the terminals of the detector.

The diagrams (illustrative examples) show the position of the relay contacts at rest (no alarm).



Technical specifications

Power supply voltage	230 V~ +/- 10% 50 Hz
Solenoid valve command relay	1 potential-free change-over contact
Capacity of relay contacts (max)	6 (2) A 250 V ~
Protection class	IP40
Type of insulation	Class II
Area of application	Domestic - type A
Semiconductor sensor	Installed inside the probe module
Operating temperature limits	- 10 °C ÷ + 40 °C
Operating humidity	90% UR (maximum)
Types of gas detected	Natural Gas - with model for natural gas LPG - with model for LPG gas
Alarm tripping	10% LIE (Lower Explosiveness Limit) For both models
Acoustic alarm	85 dB at 1 m
Sensor warm-up time at switch-on	1 minute
Storage temperature limits	- 15 °C ÷ + 50 °C

Mylos - Technical details

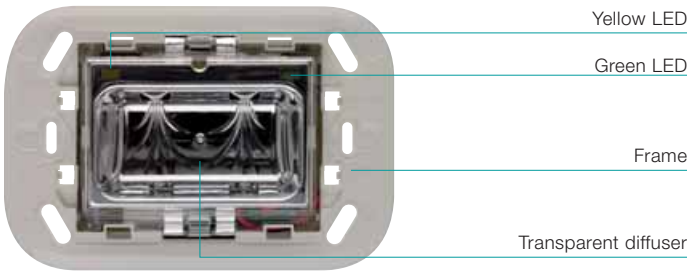
Safety and comfort devices

2

Emergency lighting

Description	Code
LED lamp for emergency lighting or steplight. Charge reserve up to 3h and recharge time 12h. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box	2CSY1303MC

Components



High efficiency LED lit emergency device for embedded installation. Dimensions of 3 modules. Suitable for installation of frames of the Mylos wiring accessories' range.

Instructions for installation and operation

The lamp provides 6 distinct operating modes, that can be set by programming.

Mode	Description	Battery life	Terminals 1 e 2
1	inhibition not activated	1h	Switch-on / switch-off / adjustment
2	inhibition not activated	2h	Switch-on / switch-off / adjustment
3	inhibition not activated	3h	Switch-on / switch-off / adjustment
4	Inhibition activated	1h	Connection for inhibition switch
5	Inhibition activated	2h	Connection for inhibition switch
6	Inhibition activated	3h	Connection for inhibition switch

To access programming mode you need to connect the batteries using the appropriate connector: the yellow LED will light up and the green LED will flash a number of times equal to the mode set (for example, 2 flashes=mode 2). This sequence will be repeated 3 times.

If you wish to change the operating mode, press the transparent diffuser: the yellow LED will switch off for a fraction of a second to indicate that the key has been pressed and the green LED will indicate the value of the new mode by the number of flashes. Each time the diffuser is pressed,

it increments the operating mode by one unit. After three cycles of displaying the mode, the device will automatically complete the programming procedure, store the mode that has been set and the GREEN and YELLOW LEDs will switch off.

In modes 1-2-3 it is possible to adjust the lighting level (dimming) by pressing the transparent diffuser.

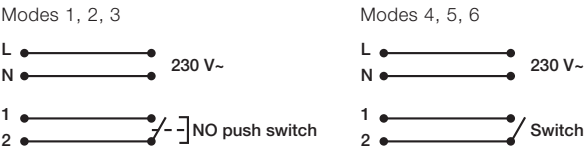
Functions

The device is equipped with 2 signalling LEDs:

Green LED	Meaning
Flashing	Device connected to the electrical network being quick-charged.
On	Device connected to the electrical network being recharged for maintenance
Off	Device in emergency state.

Yellow LED	Meaning
On	The device has faults (monthly test NOT passed)
Off	No malfunction

Wiring diagram



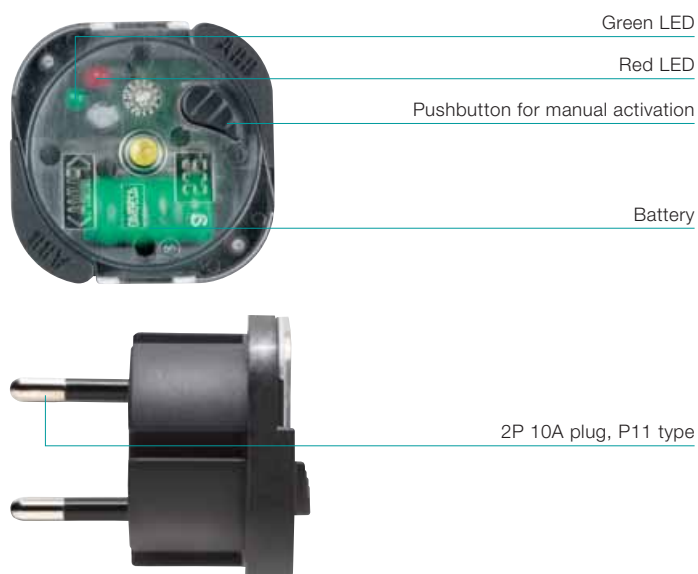
Technical specifications	
Power supply voltage	230V~ ±10%, 50-60 Hz.
Emergency light flow	50 lumen with 1h autonomy 35 lumen with 3h autonomy
Consumption	SE mode (not permanent) 5mA at 230V~ = 1.6W SA mode (permanent) 30mA at 230V~ = 7 W Ni-Mh batteries, AA 3.6V 1300mAh High Temperature
Battery recharge time	12 hours quick charge
Battery life	1h, 2h and 3h
Lamp	2 white high efficiency 1W LEDs
Signalling	2 GREEN and YELLOW LEDs
Ambient Temperature	25°C

Reference standards

EN 60598-2-22

Description	Code
Anti black-out removable light, 230V~. Charge reserve 4.5h and recharge time 10-20h. To be combined with 230V~ sockets	2CSY1214MC
	2CSY1214MS

Components



The anti-blackout light is an automatic removable, rechargeable electronic lamp that can be inserted in any Schuko socket or Italian P11 standard 10A bivalent socket. Socket outlets particularly recommended for holding the lamp are the sockets of the Mylos wiring accessories' range 2CSY1108MC/S and 2CSY1109MC/S, that allow the body of the lamp to be embedded in the socket outlet, thus minimizing the external dimensions.

The device was designed to light up automatically in the event of a blackout (no voltage warning), or to be used as a portable lighting device, useful in order to guarantee visibility and facilitate maintenance operations and/or searching for faults in unlit environments.

Functions

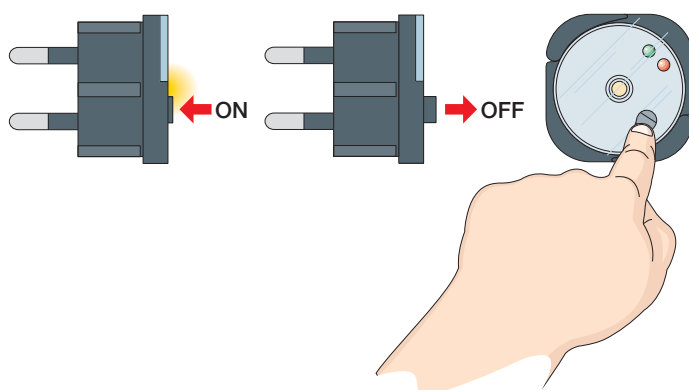
A light source is activated automatically whenever the line voltage is missing (blackout) thanks to rechargeable backup batteries.

- Possibility to extract it from the socket and use it as a normal pocket torch with an on/off button on the front.
- Long autonomy, 4.5 hours of continuous operation.
- Small dimensions - protrusion from the Schuko profile (only 8 mm).

On the front part there are two LEDs (one red and one green) that indicate the state of the lamp when is powered:

- Red LED on, recharging in progress, in the event of a blackout the lamp will remain off (battery saving condition, used in the case of prolonged absence).
- Green LED on, recharging in progress, in the event of a blackout the lamp will light up and will switch off automatically when the network is restored

The pushbutton on the front part allows you to switch from one condition to another.



Technical specifications

Plug	2P 10A
Center distance of the pins	19 mm
Ø of the pins	4 mm
Power supply	230V~50-60 Hz
Recharge time	10-20 hours
Useful battery life	4.5 hours

Reference standards

EN 60598-1, EN 60598-2

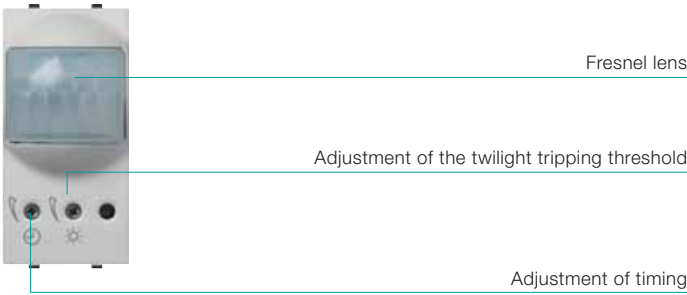
Mylos - Technical details

Safety and comfort devices

Other devices

Description	Code
IR motion detector, with twilight sensor and adjustment of operation time	2CSY1216MC
	2CSY1216MS

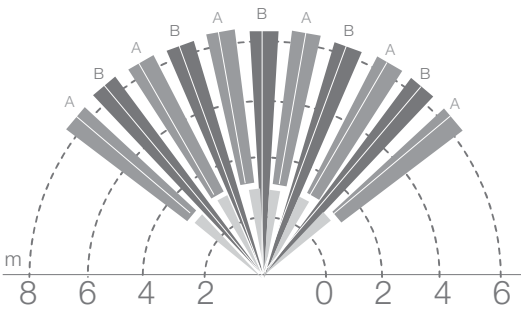
Components



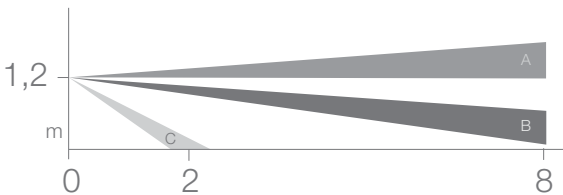
Switch with infrared presence sensor in order to switch lights on through adjustable twilight sensor threshold and delay cycle.

It operates the load automatically when persons or animals pass through the field of action of the sensor.

Sensor volumetric cover



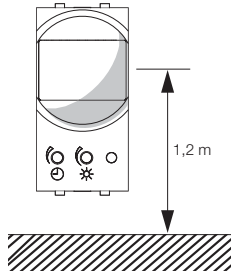
Pyroelectric reading sensor and Fresnel lens with volumetric cover.



Front twilight sensor.

Instructions for installation

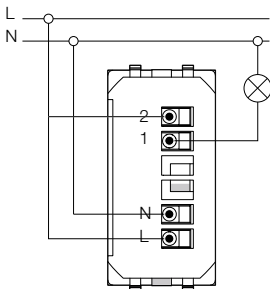
- for installation inside
- flush-mounting installation: 1.1-1.2 m from the walking surfaceo



The apparatus cannot be installed in:

- environments with sudden changes temperature.
- environments with high humidity.
- environments with presence of gas, corrosive fluids, sea air or dust.

Wiring diagram



Examples of application



Technical specifications

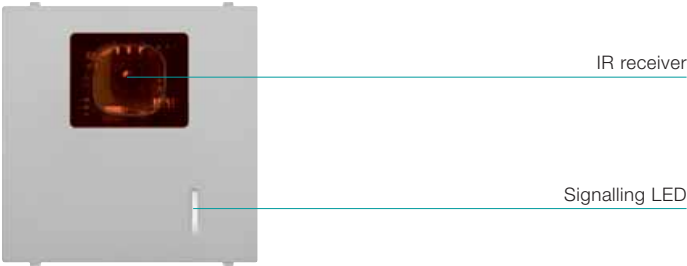
Power supply	230V AC (L-N terminals)
Power relay output (terminals 1-2)	
Max load	
- resistive loads	10A / 250V c.a.
- inductive loads	2A / 250V c.a.
Tripping threshold	0-300 Lux
Time delay	Adjustable by means of a front trimmer
	From approximately 5 s to approximately 5 min
	Adjustable by means of a front trimmer
Operating temperature	-5 a +35 °C.

Reference standards

LV Directive; EMC Directive; EN 60730

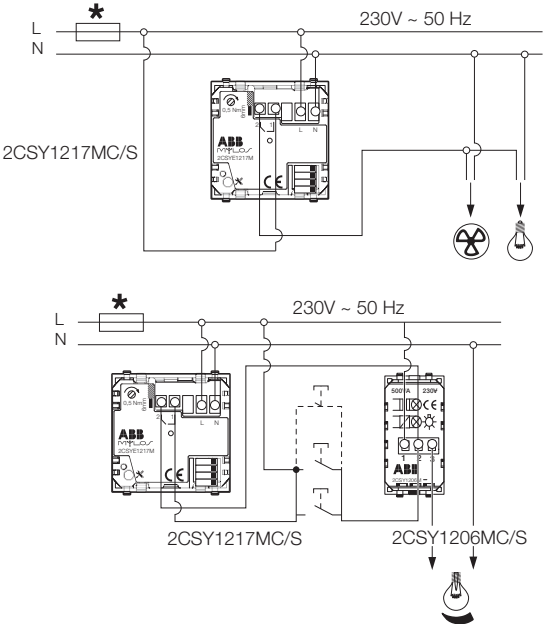
Description	Code
IR receiver for remote control, 1-channel, 230V~	2CSY1217MC
	2CSY1217MS

Components



IR receiver with 1 channel. This device allows operating commands to be received that are generated by a dedicated remote control, sold separately (code 2CSE1217EL). The active signal bandwidth of the remote control is selected by a dip-switch on the receiver (1 receiver for every channel of the remote control).

Wiring diagram



* 6.3 x 32 mm - 6.3A - 500 V (quick)
P.I. ≥ 1500A

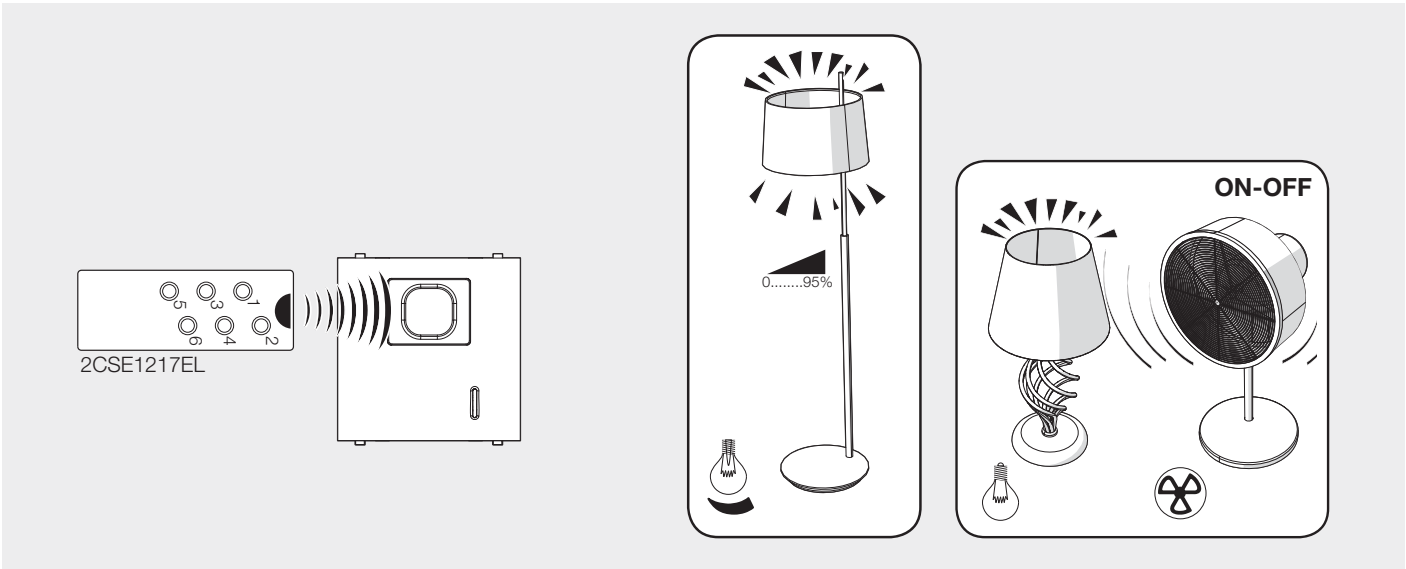
Technical specifications

Operating temperature	-5 ÷ + 45 °C
Protection class	indoors, dry
Max load	16A resistive
Place of use	indoors, dry

Reference standards

CEI 64-8

Examples of application



Mylos - Technical details

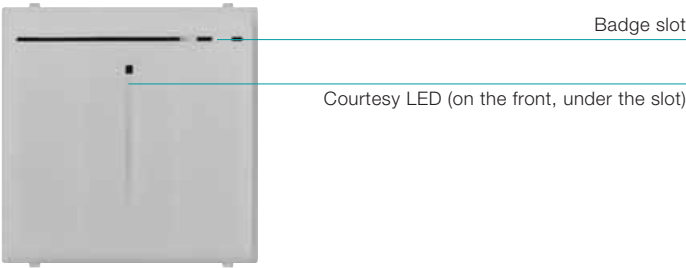
Safety and comfort devices

2

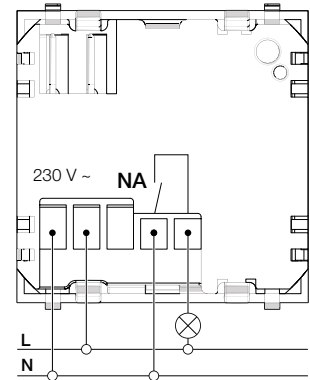
Description	Code
Universal badge switch with location light	2CSY1426MC
	2CSY1426MS

Vertical badge electronic switch, relay output
16 A 250 V~, power supply 230 V~ 50-60 Hz, modules.
Supplied without ISO card (badge). The device is equipped
with a courtesy LED for night-time localization.

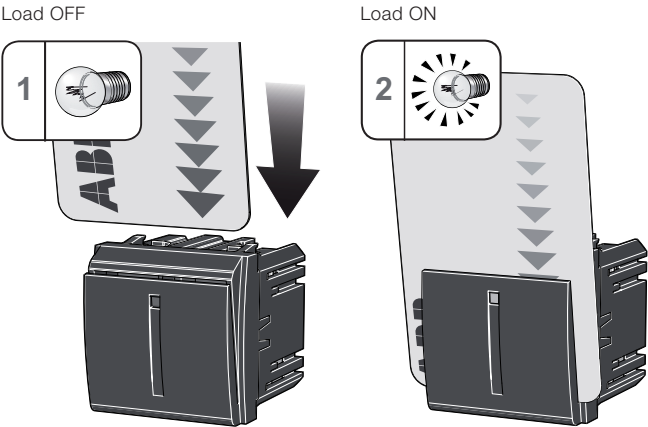
Components



Wiring diagram



Operation



Technical specifications

Power supply	230 V~ ±10% 50-60 Hz
Output	relay with clean contact 10 A 250 V~ cos ø 1
Typical absorption	230 V~ 50-60 Hz: 30 mA, con relè attivo
Operating temperature	-5 °C +45 °C

Reference standards

LV Directive; EMC Directive; Standard EN 60669-2-1

Mylos - Technical details

Frames

Mylos frames feature an under-plate that guarantees maximum adhesion to every type of surface and allows the application of finishing materials, while maintaining minimal protrusion from the wall.

The under-plate is black except for the Pure White finishes, where it is white in order to guarantee maximum integration with the wall.

In the 4+4 module frames, the separator is painted with a white or black velvet finish. The combination is that shown for each finish in the section from page 2/22 to page 2/24

Reference standards

CEI 23-9 (EN 60669-1).

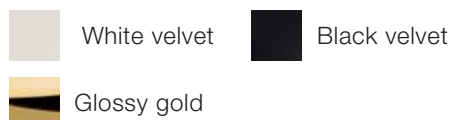


Customization



All the Mylos frames are provided with a internal chromium plated internal trim, except for frames with a Pure White finish (white velvet paintwork).

On request, it is also possible to get frames with a trim painted in the following colours:



Minimum order batch: 200 pieces including various modularities.

For quotes and delivery times contact the local ABB salesman.

Frames customized with a logo/text string can be supplied on request. They are produced by means of monochromatic pad printing on the highlighted areas.



Customization possible with standard colours (black, Pantone Cool Gray 3 C, Pantone 5425 C) or with a colour specified by the customer.

Minimum order batch: 36 pieces including various modularities..

For quotes and delivery times contact the local ABB salesman.

Application

Discover all the combinations and possibilities for customization of the Mylos series with the new dedicated app!



Download the application
for iPhone (Italian only)

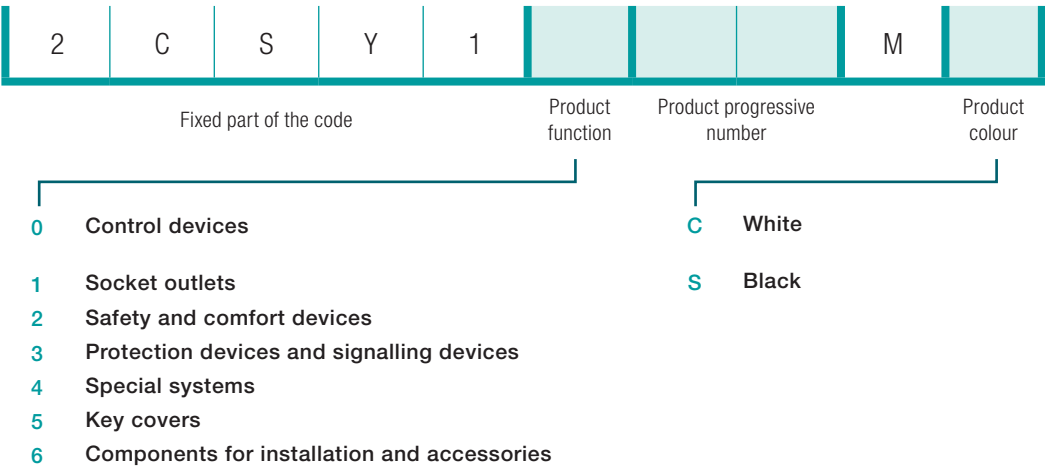
Mylos - Coding

Order information

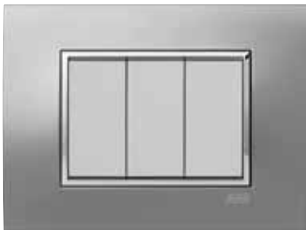
2



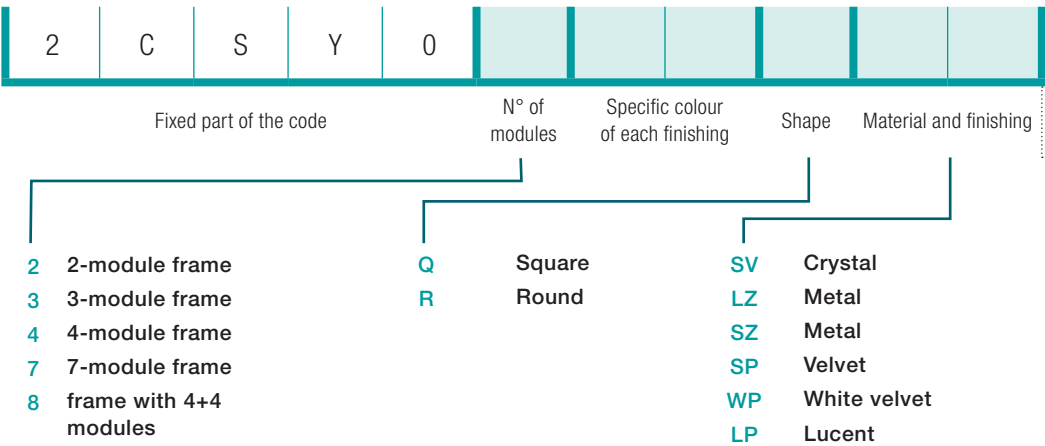
Coding criteria of the devices



Example: White single-pole switch



Coding criteria of the frames



Example: 3-module frame, Metal, silver satin finish, square



Packaging

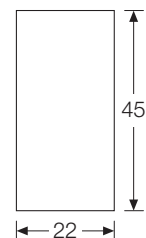
To enable automatic warehouse management using optical readers, the devices and frames of the Mylos wiring accessories' range are packed individually in boxes that bear the EAN bar code and that protect the contents adequately against dust and shocks. For a better explanation of the installation methods, a specific instruction sheet is supplied. Multiple packages are available for all the codes with the highest turnover.

Mylos

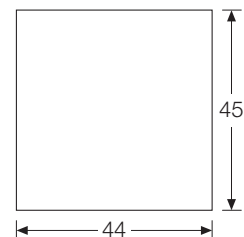
Overall dimensions

Code □	Code ■	Description	No. Modules	Depth mm
2CSY1001MC	2CSY1001MS	Single-pole switch, 16A - 250V~	1	25
2CSY1001SC	2CSY1001SS	Single-pole switch, 16A - 250V~ (screwless)	1	25
2CSY1001XC	2CSY1001XS	Single pole switch, 16A - 250V~, 2 modules	2	25
2CSY1001ZC	2CSY1001ZS	Single-pole switch, 16A - 250V~, 2 modules (screwless)	2	25
2CSY1002MC	2CSY1002MS	Double-pole switch, 16A - 250V~	1	25
2CSY1002SC	2CSY1002SS	Double-pole switch, 16A - 250V~ (screwless)	1	25
2CSY1003MC	2CSY1003MS	Single-pole two-way switch, 16A - 250V~	1	25
2CSY1003SC	2CSY1003SS	Single-pole two-way switch, 16A - 250V~ (screwless)	1	25
2CSY1003XC	2CSY1003XS	Single-pole two-way switch, 16A - 250V~, 2 modules	2	25
2CSY1003ZC	2CSY1003ZS	Single-pole two-way switch, 16A - 250V~, 2 modules (screwless)	2	25
2CSY1004FC	2CSY1004FS	Single-pole switch, 16A - 250V~ (incorporated LED)	1	25
2CSY1005MC	2CSY1005MS	Single-pole push switch, 16A - 250V~, NO	1	25
2CSY1005SC	2CSY1005SS	Single-pole push switch, 16A, NO (screwless)	1	25
2CSY1006FC	2CSY1006FS	Double-pole switch, 16A - 250V~ with incorp. LED (LOAD)	1	25
2CSY1006MC	2CSY1006MS	Double-pole switch, 16A - 250V~ with incorp. LED (ON)	1	25
2CSY1007MC	2CSY1007MS	Double-pole switch, 16A - 250V~, with key control	1	31
2CSY1007MCU	2CSY1007MSU	Double-pole switch, 16A - 250V~, with universal key contr.	1	31
2CSY1008MC	2CSY1008MS	Double-pole push switch, 16A - 250V~, with key control	1	31
2CSY1008MCU	2CSY1008MSU	Double-pole push switch, 16A - 250V~, with universal key control	1	31
2CSY1010MC	2CSY1010MS	Intermediate switch, 16A - 250V~	1	25
2CSY1010SC	2CSY1010SS	Intermediate switch, 16A - 250V~ (screwless)	1	25
2CSY1010XC	2CSY1010XS	Intermediate switch, 16A - 250V~, 2 modules	2	25
2CSY1010ZC	2CSY1010ZS	Intermediate switch, 16A - 250V~, 2 modules (screwless)	2	25
2CSY1011MC	2CSY1011MS	Change-over switch, 10A - 250V~ 3 position, with central OFF	1	25
2CSY1012MC	2CSY1012MS	Single-pole latching relay, with 230V~ coil, output contact 10A	1	32
2CSY1014MC	2CSY1014MS	Monostable relay, with 230V~ coil, output contact 10A	1	32
2CSY1015FC	2CSY1015FS	Single-pole push switch, 16A - 250V~, NO (incorp. LED)	1	25
2CSY1016MC	2CSY1016MS	Single-pole push switch, 16A - 250V~, NC	1	25
2CSY1017MC	2CSY1017MS	Double single-pole push switch, 16A - 250V~, NO+NO	1	25
2CSY1018MC	2CSY1018MS	Double single-pole push switch, 16A - 250V~, NO+NO, with interlock	1	25
2CSY1020MC	2CSY1020MS	Single-pole push switch with pull cord, 16A - 250V~, NO	1	25
2CSY1021MC	2CSY1021MS	Single-pole push switch with pull cord, 16A - 250V~, NO	1	25
2CSY1022MC	2CSY1022MS	Single-pole push switch, 16A - 250V~, 1 NO + 1 NC, (ON)	1	25
2CSY1023MC	2CSY1023MS	Single-pole push switch, 16A - 250V~, 1 NO + 1 NC, (OFF)	1	25
2CSY1024MC	2CSY1024MS	Single-pole push switch, 16A - 250V~, NO, (RED LED)	1	25
2CSY1025MC	2CSY1025MS	Single-pole push switch, 16A - 250V~, NO, (GREEN LED)	1	25
2CSY1026MC	2CSY1026MS	Single-pole push switch, 16A - 250V~, NO, (ORANGE LED)	1	25
2CSY1027MC	2CSY1027MS	Single-pole push switch, 16A - 250V~, NO, (WHITE LED)	1	25
2CSY1028MC	2CSY1028MS	Single-pole push switch, 16A - 250V~, NO, (BELL)	1	25
2CSY1029MC	2CSY1029MS	Single-pole push switch, 16A - 250V~, NO, (KEY)	1	25
2CSY1030MC	2CSY1030MS	Single-pole push switch, 16A - 250V~, NO, (STAIRLIGHT)	1	25
2CSY1101MC	2CSY1101MS	2P+E socket outlet, 10A - 250V~, P11 type	1	25
2CSY1103MC	2CSY1103MS	2P+E socket outlet bivalent, 10/16A - 250V~, P17/11 type	1	25
2CSY1104MR		2P+E socket outlet bivalent, 16A - 250V~, P17/11 type, red	1	25
2CSY1105MV		2P+E socket outlet bivalent, 16A - 250V~, P17/11 type, green	1	25
2CSY1106MA		2P+E socket outlet bivalent, 16A - 250V~, P17/11 type, orange	1	25
2CSY1108MC	2CSY1108MS	2P+E socket outlet, 16A - 250V~, P30 type	2	35
2CSY1109MC	2CSY1109MS	2P+E socket outlet, 16A - 250V~, P30/17 type	2	35
2CSY1110MR		2P+E socket outlet, 16A - 250V~, P30/17 type, red	2	35
2CSY1111MV		2P+E socket outlet, 16A - 250V~, P30/17 type, green	2	35
2CSY1112MA		2P+E socket outlet, 16A - 250V~, P30/17 type, orange	2	35

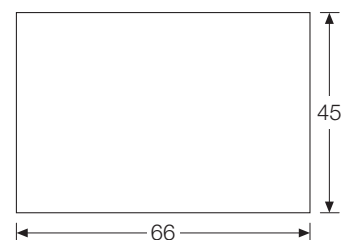
1 module



2 modules



3 modules



Mylos

Overall dimensions

2

Code □	Code ■	Description	No. Modules	Depth mm
2CSY1114MR		2P+E socket outlet, 16A - 250V~, P30 type, red	2	35
2CSY1115MV		2P+E socket outlet, 16A - 250V~, P30 type, green	2	35
2CSY1116MA		2P+E socket outlet, 16A - 250V~, P30 type, orange	2	35
2CSY1118MC	2CSY1118MS	Coaxial TV/SAT sockets, direct, male IEC connector, Ø 9.5 mm, DC	1	25
2CSY1121MC	2CSY1121MS	Telephone connector, RJ11	1	21
2CSY1122MC	2CSY1122MS	Telephone connector, RJ12	1	21
2CSY1124MC	2CSY1124MS	RJ45 connector, Cat.5e, UTP (unshielded)	1	21
2CSY1125MC	2CSY1125MS	RJ45, Cat.5e, FTP (shielded)	1	21
2CSY1127MC	2CSY1127MS	RJ45 connector, Cat.6, UTP (unshielded)	1	21
2CSY1128MC	2CSY1128MS	RJ45 connector, Cat.6, FTP (shielded)	1	21
2CSY1130MC	2CSY1130MS	Coaxial TV/SAT sockets, double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 10 dB	1	25
2CSY1131MC	2CSY1131MS	Coaxial TV/SAT sockets: double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 14 dB	1	25
2CSY1132MC	2CSY1132MS	Coaxial TV/SAT sockets, feedthrough, male IEC connector, Ø 9.5 mm, attenuation 7 dB	1	25
2CSY1133MC	2CSY1133MS	Coaxial TV/SAT sockets, double demixed, feedthrough, male IEC connector, Ø 9.5 mm and female F connector	1	25
2CSY1136MC	2CSY1136MS	Coaxial TV/SAT sockets, feedthrough, male IEC connector, Ø 9.5 mm, attenuation 10 dB	1	25
2CSY1137MC	2CSY1137MS	Coaxial TV/SAT sockets, feedthrough, male IEC connector, Ø 9.5 mm, attenuation 14 dB	1	25
2CSY1140MC	2CSY1140MS	Coaxial TV/SAT sockets, direct, female F connector, DC	1	25
2CSY1160MC	2CSY1160MS	Flush-mounted USB charger 500-650mA, with male type A connector, power supply 230V~ 50/60Hz, output voltage 5V DC	1	35
2CSY1201MC	2CSY1201MS	Electronic time-programmable thermostat, day/week programm., summer/winter function, with LCD display, 3 modules	3	39
2CSY1201XC	2CSY1201XS	Electronic time-programmable thermostat, day/week programm., summer/winter function, with LCD display, 2 modules	2	31
2CSY1202MC	2CSY1202MS	Electronic thermostat, summer/winter function, with LCD display, 3 temperature levels can be set, 3 modules	3	39
2CSY1202XC	2CSY1202XS	Electronic thermostat, summer/winter function, with LCD display, 3 temperature levels can be set, 2 modules	2	31
2CSY1205MC	2CSY1205MS	Electronic dimmer with rotary control for resistive loads 100-500W 230V~ 50/60Hz	1	32
2CSY1206MC	2CSY1206MS	Electronic dimmer with push-button control for resistive and inductive loads 60-500W (60-500VA) 230V~ 50/60Hz	1	32
2CSY1207MC	2CSY1207MS	Electronic dimmer with rotary control and two-way switch for resistive loads 100-500W 230V~ 50/60Hz	1	32
2CSY1210MC	2CSY1210MS	Natural gas electronic detector with acoustic and luminous signal	3	39
2CSY1211MC	2CSY1211MS	LPG gas electronic detector with acoustic and luminous signal	3	39
2CSY1214MC	2CSY1214MS	Anti black-out removable light, 230V~	2	26
2CSY1216MC	2CSY1216MS	IR motion detector, with twilight sensor and adjustment of operation time	1	32
2CSY1217MC	2CSY1217MS	IR receiver for remote control, 1-channel, 230V~	2	32
2CSY1301MC	2CSY1301MS	Fuse holder, Ø5x20 / Ø6.3x32, 16A	1	26
2CSY1302MC	2CSY1302MS	Surge protection device limiter 75J, 250V~	1	26
2CSY1303MC	2CSY1303MS	LED lamp for emergency or stairwell lighting	3	50
2CSY1304MC	2CSY1304MS	Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	1	37,5
2CSY1305MC	2CSY1305MS	Automatic MCB, 1P+N, C10, breaking capacity 3kA	1	37,5
2CSY1306MC	2CSY1306MS	Automatic MCB, 1P+N, C16, breaking capacity 3kA	1	37,5
2CSY1307MC	2CSY1307MS	Automatic RCD, 1P+N, C6 - 10 mA, break. cap. 1.5kA	2	37,5
2CSY1308MC	2CSY1308MS	Automatic RCD, 1P+N, C10 - 10 mA, break. cap. 3kA	2	37,5

Code □	Code ■	Description	No. Modules	Depth mm
2CSY1309MC	2CSY1309MS	Automatic RCD, 1P+N, C16 - 10 mA, break. cap. 3kA	2	37,5
2CSY1310MC	2CSY1310MS	Orange warning light, (incorporated LED)	1	25
2CSY1311MC	2CSY1311MS	White warning light, (incorporated LED)	1	25
2CSY1312MC	2CSY1312MS	Red warning light, (incorporated LED)	1	25
2CSY1313MC	2CSY1313MS	Green warning light, (incorporated LED)	1	25
2CSY1317MC	2CSY1317MS	Electro-mechanical bell, 12V, 5VA power, 80dB sound intensity	1	32
2CSY1318MC	2CSY1318MS	Electro-mechanical bell, 230V, 8VA power, 80dB sound intensity	1	32
2CSY1321MC	2CSY1321MS	Electro-mechanical buzzer 12V, 5VA power, 70dB sound intensity	1	32
2CSY1322MC	2CSY1322MS	Electro-mechanical buzzer 230V, 8VA power, 80dB sound intensity	1	32
2CSY1426MC	2CSY1426MS	Universal badge switch with location light	2	32

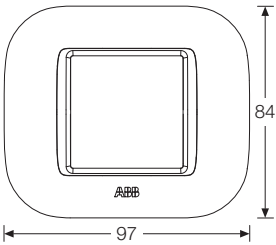
Mylos

Overall dimensions

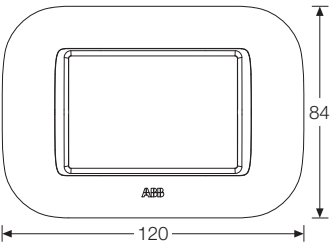
2

Frames round

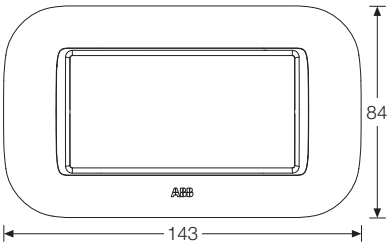
Round 2 modules



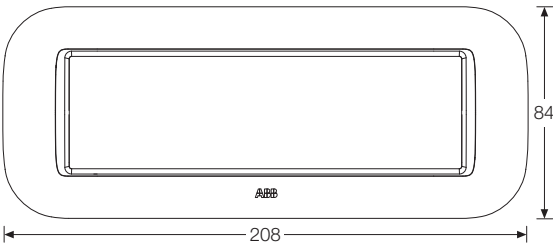
Round 3 modules



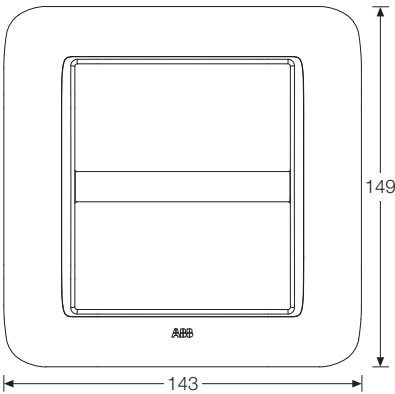
Round 4 modules



Round 7 modules

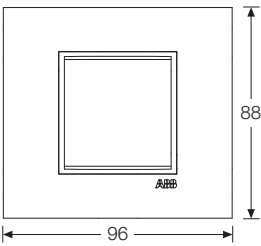


Round 4+4 modules

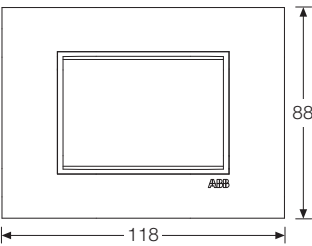


Frames square

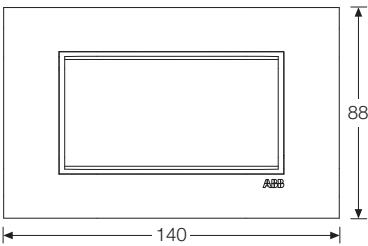
Square 2 modules



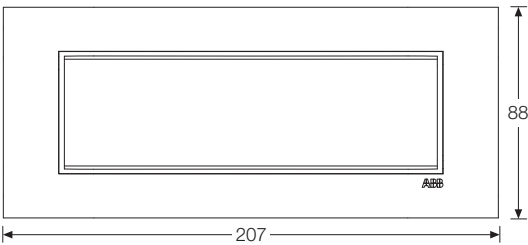
Square 3 modules



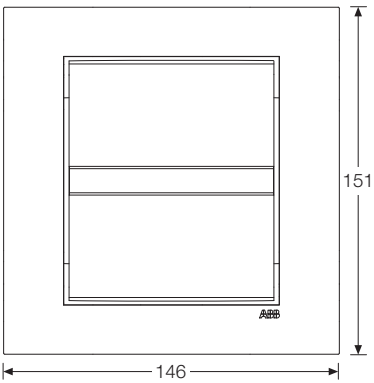
Square 4 modules



Square 7 modules



Square 4+4 modules

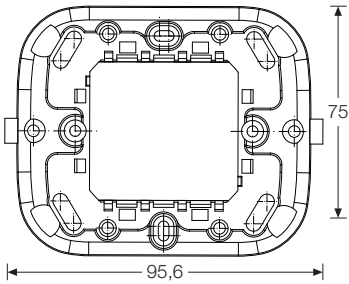


All measurements are given in millimetres.

Supports

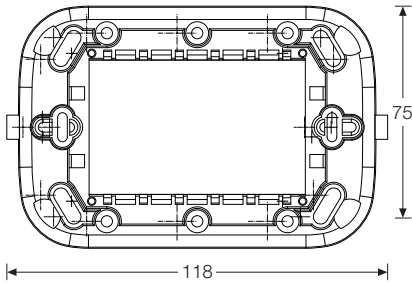
2 modules

Screw distance of the box: 60 mm



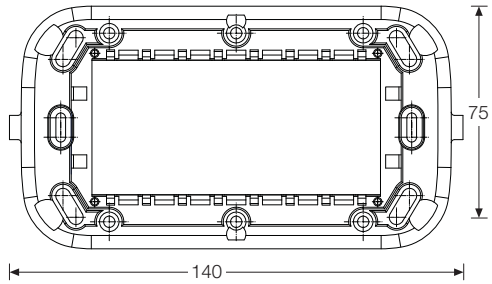
3 modules

Screw distance of the box: 83,5 mm



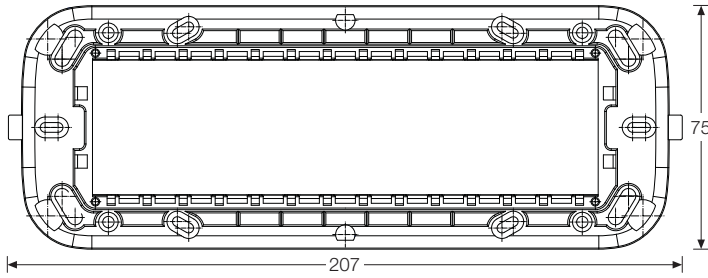
4 modules

Screw distance of the box: 108 mm



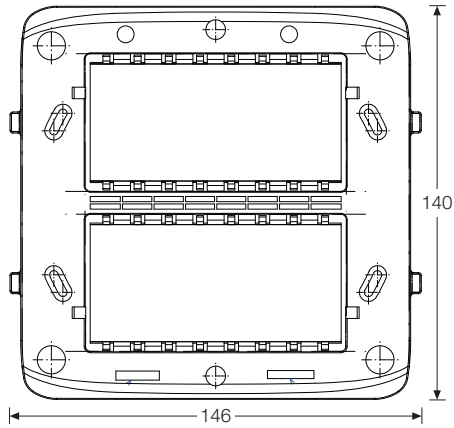
7 modules

Screw distance of the box: 100 mm



4+4 modules

Screw distance of the box: 108 mm



All measurements are given in millimetres.

Mylos Home Automation

Order codes and technical details

Your new house	3/2
Many environments, many solutions, a single control device	3/4
Product wiring diagram	3/6
The BUS for everyone	3/8

Order codes

Home automation devices	3/10
Mylos Touch control unit	3/14

Technical details

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Building automation devices	3/46
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Mylos Home Automation

Your new house

Solutions and features that change the experience of domestic life, simplifying every action.

With Mylos the word comfort assumes a new meaning

3



A simpler house.

Simplicity is the real revolution in home automation. Both for the installer and for the end user.

With one pushbutton you can turn off all the lights in the house before you go out.

It is possible to program the lights in the various environments so that you have the right brightness set for different activities (chatting with friends, watching TV, working or studying, and so on). All the devices can be controlled from a single control unit and can be programmed as required. Moreover, it is possible to control them remotely directly from a mobile phone. Thanks to the BUS technology, in order to change lighting

points, integrate new services, or to implement the installation the installer does not need to lay new cables or carry out any new building work: it is only necessary to reprogram the previous installation, with considerable savings in terms of cost, time and labour.

A safer house.

With DomusTech solutions it is possible to extend the power of the Mylos system. The intelligent management of electric loads means that the current will never be interrupted due to too many devices being on at the same time: the system takes care of automatically switching off the “excessive”



devices and will reactivate them as soon as a drop in energy requirements allows it. Mylos and DomusTech work together in the event of danger: if the event of intrusion, it is possible to activate alarms and at the same time to perform commands on the home automation system. If, on the other hand, the problem is a gas leak, the system is able to detect it and interrupt emission of gas. Similarly, in the event of flooding it can interrupt the flow of water. Smoke detectors and anything else required can also be integrated in order to increase the safety of houses and apartments.

Thanks to Mylos it is easy to save energy.

The climate of each environment can be managed in a differentiated manner, so that you always have the right temperature, only where it is needed, without waste of gas or electricity. You can program lights to switch on in the morning, the opening of roller shutters, heating of the bathroom and the exclusion of specific electrical devices during the night, or during the day when you are away from home. Energy is used in a better way, only when it is needed, and the house is more comfortable, because there is no waste and everything is gauged to the real requirements and preferences of its inhabitants.

3



Light dimming



Scenario management



Lighting



Thermoregulation in 3 independent zones



Load control



3/4 2CSC600290D0201 | Mylos, Élos, Chiara

A screenshot of the Windows 7 desktop environment. The Start menu is open, displaying the Windows logo and the text 'Windows 7'. Below the logo are icons for 'Home', 'Work', and 'School'. The taskbar at the bottom shows the Start button, a search bar, and several pinned applications including Internet Explorer, Windows Explorer, and the Windows Media Center. The desktop background is a solid blue color.

- ### Anti-intrusion

- » 1 DomusLink station
- » 1 Alarm siren for external installation with interface
- » 4 IR detectors
- » 7 Perimeter detectors
- » 4 External movement detectors



DTL0301



2CSYE1703M



DTS7103



DTS1235



DTS1352



DTS1305



Technical alarms

- » 3 Flooding detectors
- » 1 Natural gas detector
- » 4 Optical smoke detectors



DTS4201



DTS4301

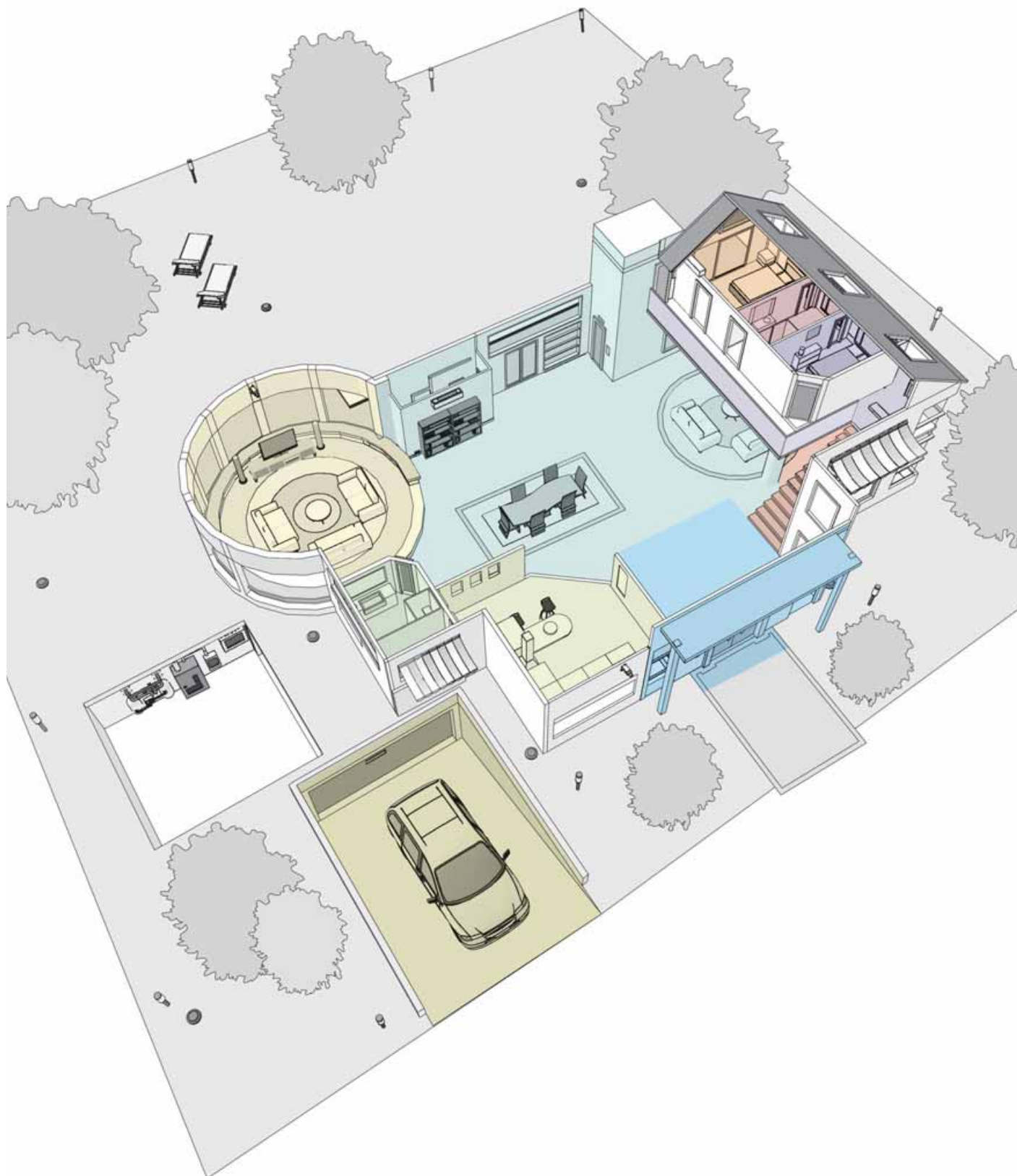


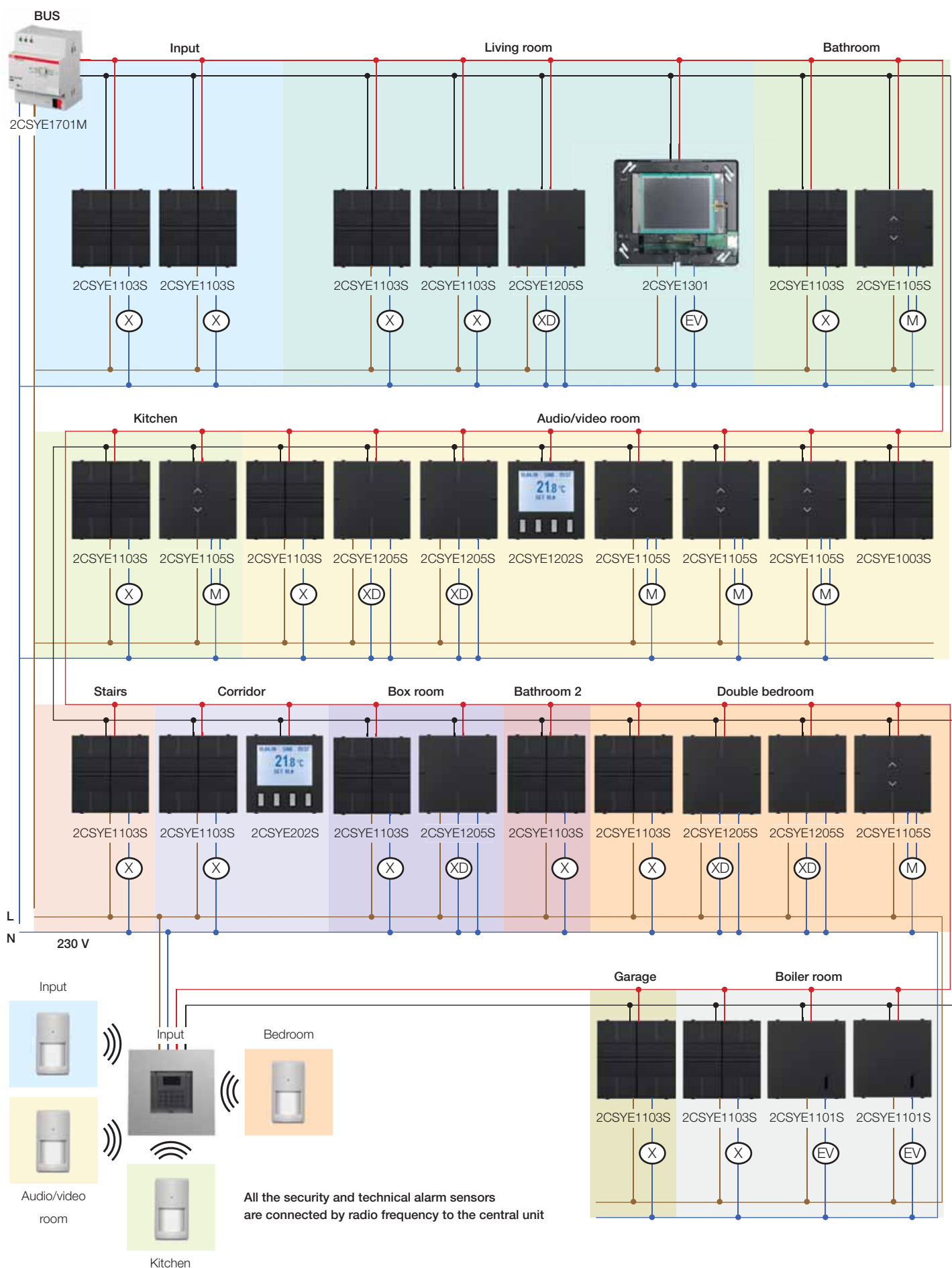
DTS4101



Mylos Home Automation Product wiring diagram

3





Mylos Home Automation

The BUS for everyone

Mylos: the house is made to measure.

With Mylos, programming is carried out through the time-programmed thermostat or the touch panel that can manage up to 64 devices.

3

With Mylos, configuration is performed in a simplified manner through a device installed on the same system.

This is a system designed to be within the reach of all the installers, and not only for use by system integrators.



Time-programmed thermostat

Press any key to enter the device menu.



Configuration menu

As you scroll through the icons, select the „settings“ menu for the configuration of the Mylos Home Automation system.



Groups

A group is a logical set of devices: select this item to acquire the devices of the system.



Groups

The system suggests a series of possible common names for a group: this can be customized later on.



Rename the group

It is possible to rename the group so that it identifies more clearly where the devices are located or the load that they will control. Press "OK" twice with the cursor on the space to continue.



Add a device

By selecting this item, the time-programmed thermostat will add a device to the group that has just been created and will configure it.



Programming

At this point the time-programmed thermostat waits for the programming key on the device to be pressed and the channel to be acquired to be selected. When this has been done, an identification number will appear and the device will at this point be configured.



After pressing the programming key and acquiring the device it is possible to customize the way it operates from the time-programmed thermostat parameters menu. The changes will be applied instantly, without the need to repeat the programming.

Simplifying technology to make life easier for everyone.
This is the philosophy behind Mylos, a dedicated BUS system to make every home a unique and comfortable environment.

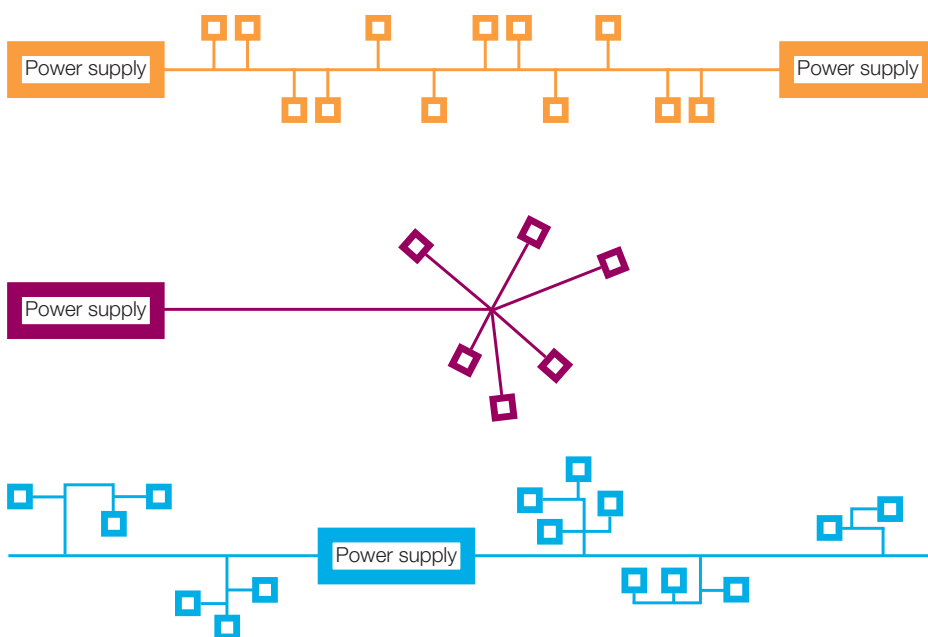
Mylos works on a BUS, exploiting the experience of ABB with KNX technology. Created specifically to meet the needs of a particular application context, it is ideal for a residential system.

Its distinguishing features are as follows:

- in a system it is possible to install up to 64 intelligent devices, an adequate number, considering that most residential installations rarely involve more than 30 devices;
- all the devices are flush-mounted, allowing maximum flexibility of installation without having to intervene on the home control unit.

Line installation types


- 01 Linear
- 02 Star
- 03 Mixed



Connection of the BUS cable



The shielding of the two wires guarantees the electrical insulation of the BUS cable from the 230V cables, allowing them to be installed in the same duct.



Terminals, for the connection of other devices to the system (inputs) or for connection of loads in devices with an actuator.



Programming key to be pressed so that the device will be recognized by the system configurator (time-programmed thermostat or Mylos Touch).

Mylos Home Automation - Order codes

Home automation devices

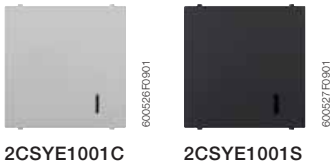
3



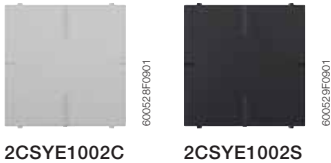
2CSYE1011C 2CSYE1011S



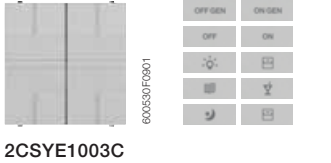
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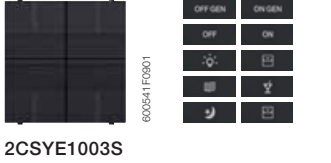
2CSYE1001C 2CSYE1001S



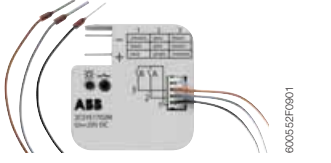
2CSYE1002C 2CSYE1002S



2CSYE1003C



2CSYE1003S



2CSYE1702M

Inputs and sensor units

Description	N° modules	Code	Box/Pack No. items
2 binary inputs unit, 1 module	1	2CSYE1011C	1/1
	1	2CSYE1011S	1/1
Input module, 1 rocker switch, 1 module	NEW 1	2CSYE1012C	1/1
	1	2CSYE1012S	1/1
2 binary inputs module	2	2CSYE1001C	1/1
	2	2CSYE1001S	1/1
2 binary inputs module, 1 rocker switch	2	2CSYE1002C	1/1
	2	2CSYE1002S	1/1
2 binary inputs module, 2 rocker switches (customisation labels included)	2	2CSYE1003C	1/1
	2	2CSYE1003S	1/1
2 recessed binary inputs module to integrate traditional devices in home automation	-	2CSYE1702M	1/1

Technical details from page 3/19.



2CSYE1101C
2CSYE1104C

600528F0901



2CSYE1101S
2CSYE1104S

600527F0901



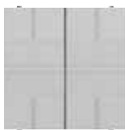
2CSYE1102C

600538F0901



2CSYE1102S

600539F0901



2CSYE1103C
2CSYE1106C

600530F0901



2CSYE1103S
2CSYE1106S

600541F0901



2CSYE1105C

600553F0901



2CSYE1105S

600554F0901



2CSYE1205C
2CSYE1206C

600555F0901



2CSYE1205S
2CSYE1206S

600556F0901



2CSYE1218C

600463F0901



2CSYE1218S

600464F0901

Actuator units

Description	N° modules	Code	Box/Pack No. items
16A relay actuator	2	2CSYE1101C	1/1
	2	2CSYE1101S	1/1
16A relay actuator, 1 rocker switch	2	2CSYE1102C	1/1
	2	2CSYE1102S	1/1
16A relay actuator, 2 rocker switches (customisation labels included)	2	2CSYE1103C	1/1
	2	2CSYE1103S	1/1
Shutter actuator	2	2CSYE1104C	1/1
	2	2CSYE1104S	1/1
230V AC shutter actuator, 1 rocker switch	2	2CSYE1105C	1/1
	2	2CSYE1105S	1/1
2x8A relay actuator, 2 rocker switches (customisation labels included)	2	2CSYE1106C	1/1
	2	2CSYE1106S	1/1

Technical details from page 3/25.

Lighting and comfort

Description	N° modules	Code	Box/Pack No. items
350W dimmer actuator, 1 rocker switch	2	2CSYE1205C	1/1
	2	2CSYE1205S	1/1
1/10V DC dimmer actuator, 1 rocker switch	2	2CSYE1206C	1/1
	2	2CSYE1206S	1/1
IR receiver for remote control	2	2CSYE1218C	1/1
	2	2CSYE1218S	1/1

Technical details from page 3/31.

Mylos Home Automation - Order codes

Home automation devices

3



600565F0901

2CSYE1201C



600566F0901

2CSYE1201S



600565F0901

2CSYE1202C



600566F0901

2CSYE1202S



600562F0901

2CSYE1107C



600562F0901

2CSYE1107S



600563F0901

2CSYE1701M



600564F0901

2CSYE1703M



600565F0901

ED 063 3
ED 064 1



600566F0901

EC 732 4

Heat regulation

Description	N° modules	Code	Box/Pack No. items
Time-programmable thermostat	2	2CSYE1201C	1/1
	2	2CSYE1201S	1/1
Thermostat	2	2CSYE1202C	1/1
	2	2CSYE1202S	1/1
8A relay actuator, 1 module	1	2CSYE1107C	1/1
	1	2CSYE1107S	1/1

Technical details from page 3/34.

Power supply and accessories

Description	N° modules	Code	Box/Pack No. items
BUS power supply unit 320mA, 30V~, 4 DIN modules	4	2CSYE1701M	1/50
DomusTech Interface	-	2CSYE1703M	1/50
BUS cable (100 m coil)	-	ED 063 3	1/50
BUS cable (500 m coil)	-	ED 064 1	1/50
BUS connection terminal	-	EC 732 4	1/50

Technical details from page 3/37.



600505F0901

2CSYE1501C



2CSYE1502C



600528F0901

2CSYE1503C



600553F0901

2CSYE1504C



600555F0901

2CSYE1505C



600510F0901

2CSYE1501S



2CSYE1502S



600529F0901

2CSYE1503S



600554F0901

2CSYE1504S



600556F0901

2CSYE1505S

Spare parts

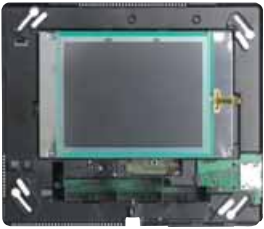
Description	N° modules	Code	Box/Pack No. items
Mylos HA/KNX key covers, 1 module	NEW -	2CSYE1501C	4/96
	-	2CSYE1501S	4/96
Customisation labels	NEW -	2CSYE1502C	1/24
	-	2CSYE1502S	1/24
Mylos HA/KNX key covers, 2 modules	NEW -	2CSYE1503C	4/96
	-	2CSYE1503S	4/96
Mylos HA/KNX key covers, 2 modules with shutter symbol	NEW -	2CSYE1504C	4/96
	-	2CSYE1504S	4/96
Mylos HA/KNX key covers, 2 modules with dimmer symbol	NEW -	2CSYE1505C	4/96
	-	2CSYE1505S	4/96

Technical details from page 3/19.

Mylos Home Automation - Order codes

Mylos Touch control unit

3



600567F0901

2CSYE1301M



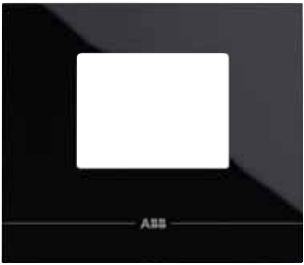
600568F0901

2CSYE1302M



600569F0901

2CSYE1301C



600570F0901

2CSYE1301S



600611F0901

2CSYE1303M

Mylos Touch control unit

Descrizione	N° modules	Code	Box/Pack No. items
Mylos Touch	-	2CSYE1301M	1/1
Flush mounting box for Mylos Touch	-	2CSYE1302M	1/1
Mylos Touch glass frames	-	2CSYE1301C	1/1
	-	2CSYE1301S	1/1
BUS Interface for Mylos Touch (spare part)	-	2CSYE1303M	1/1

Technical details from page 3/40.

Mylos Home Automation

Mylos Touch control unit



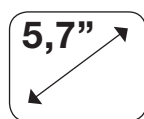
3

With Mylos Touch every house becomes unique. And everyone can reinvent it every day.

With the Mylos Touch control panel it is possible to individually activate lights, air conditioning and safety devices. Alternatively, you can create temperature and lighting scenarios for every occasion: coming home in the evening, bath time, waking up in the morning, dinner, etc. Just lightly touch the control panel and the house comes to life at your finger tips. The graphical interface is intuitive and fast.

Mylos Touch has a 5.7" LCD touch screen. Assembly is very simple, thanks to its flush-mounted wall box and elegant minimalist trim, perfectly coordinated with the Mylos wiring accessories.

Main features of Mylos Touch



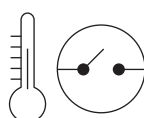
5.7" touch screen,
resolution 320x240



Monitoring
of energy consumption*



MicroSD reader for
photo slideshows and
saving the configuration



Time-programmed
thermostat
and three integrated
actuators



Programming
the Mylos
Home Automation
system

* Connected to an energy meter sold separately

Mylos Home Automation - Technical details

Description of Mylos Home Automation system

Basic concepts

The information contained in this chapter are crucial to fully understand the operation of the Mylos Home Automation system and to structure the system correctly.

A system always consists of three families of devices:

- **Input devices:** they make it possible to send actuation instructions over the bus. These controls may come from configurable commands of the devices or from external devices such as pushbuttons, sensors, IR remote controls, etc.
- **Actuation devices:** they make it possible to receive actuation instructions over the bus. There are different types of actuators, depending on the load to be controlled (relay actuators, dimmer actuators, shutter actuators). In some cases the actuation can also be controlled locally via the controls on the device itself.
- **Programming device:** only one programming device should be present in each installation. The programming devices carry out also the function of master devices for temperature regulation.

The programming timed thermostat described in this manual is a programming device that allows you to configure the functions of other devices that are present in a Mylos Home Automation system.

Refer to the instruction sheet of each single device for the corresponding functional details.

Glossary

Device	It is a physical object of the system that corresponds to a buyable product code. Each device is able to perform different functions.
Channel	A device consists of one or more channels. Each channel allows you to manage a particular device function.

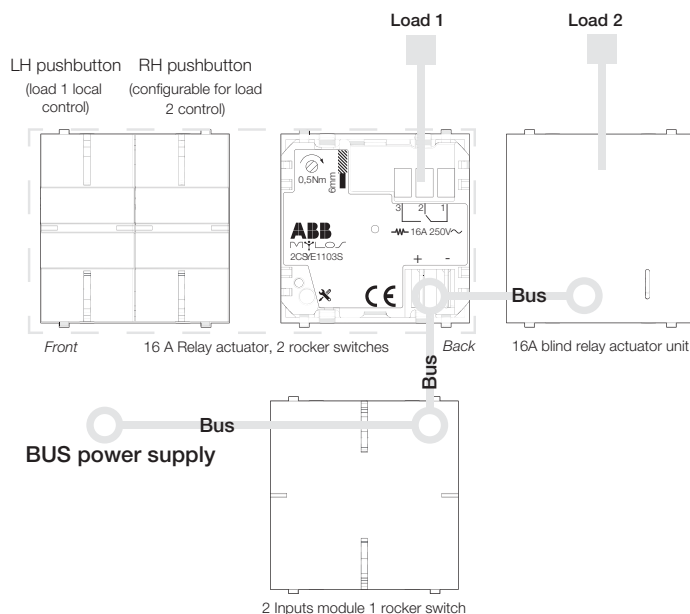
For example:

- 1) 16A Relay actuator: device with 1 actuation channel. In this case the channel corresponds to the device itself.
- 2) 16A Relay actuator 2 rocker switches: device with 2 channels. 1 channel corresponds to the actuator, which can be controlled locally using a rocker switch. The second channel corresponds to a rocker switch that can be configured to send other actuation signals to the system.
- 3) 2 Inputs module 1 rocker switch: device with 3 channels. Each channel manages the sending of different actuation commands over the bus. 2 channels correspond to inputs for NO free contacts (belonging to sensors, relays, switches), whereas a channel corresponds to the rocker switch placed on the device.

System design must take place considering first of all the functions to be performed and only subsequently preparing the list of necessary devices.

For example:

- Functional requirement: you may wish to realise a system with 2 loads controlled by as many actuators and one of the two loads has to be controlled by two points.
- Necessary devices to meet the functional requirement:
 - 1) no.1 16A Relay actuator and 2 rocker switches;
 - 2) no.1 16A Relay actuator;
 - 3) no. 1 2 Inputs module 1 rocker switch.



Configuration

Sequence of operations to be carried out on the programming device which allow you to create the logic connection among the various channels. In the previous example, the configuration allows you to combine the channels corresponding to each configurable control to the corresponding actuation channel.

Group

It is a set of channels logically linked to each other so as to provide a system function (ex: two pushbuttons controlling a single actuator). The creation of groups is the first step of system configuration.

IMPORTANT: the groups must contain similar actuation channels: it is not possible to add a relay actuator channel in the same group (for example to control lamp switching on and an actuator channel to control a shutter).

Bus line

It is the physical means composed of a dedicated BUS cable which allows different devices to be connected, ensuring the mutual control and information exchange among the different system devices.

The system can be composed of a maximum of 64 devices and one or two power supply units can be necessary, according to the number of devices and to bus length.

Parameters

They make it possible to customise the operation of each channel. The operating parameters can be modified instantaneously using the programming device.

Scenery

It is the storage of a certain status of actuators that are present in one or more groups (for example, it is possible to lower the shutters and to turn the lights on).

The scenery can be recalled from any input channel (for example a duly configured rocker switch or a 2CSE1217EL IR remote control pushbutton).

A scenery can be activated also by a temporal configurable program in the "Events" menu (see next point) or remotely via the Mylos Home Automation - Domuslink interface.

Event

Events are temporal programs on a logical basis that allow you to control groups based on the input status. An event can activate a Scenery.

In-depth information

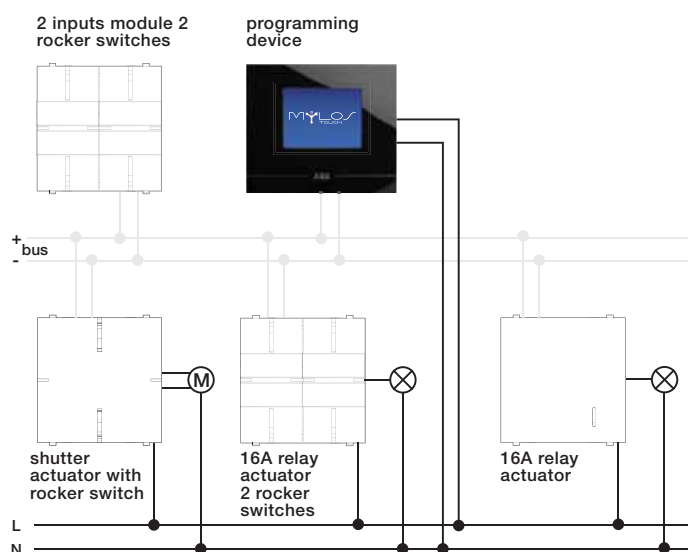
During system configuration the first necessary operation is to create groups. It is good practice to plan the groups and functions you wish to use before installation. Once the groups have been created, the programming device only manages the modification, air conditioning and program recalling functions. Any advanced operations such as the creation of sceneries and events should be considered as a system customisation.

Installation topology

Installation topology is the particular physical disposition of the devices in the system.

In the Mylos Home Automation system all devices are connected to each other via a cable for bus systems which provides them with both power and command and control packages.

It is good practice to plan the groups and functions you wish to use before installation.



System configuration occurs interacting only with the programming timed thermostat and the configuration pushbuttons placed on the rear of the devices.

Mylos Home Automation - Technical details

Description of Mylos Home Automation system

System composition

The minimum system composition should include at least:

- one programming timed thermostat;
- one power supply unit;
- one or more input devices;
- one or more actuators (relays, dimmers, shutter) with or without switches..

In each system there can be only one programming timed thermostat, a maximum of two power supply units and 64 devices.

Installing the bus system

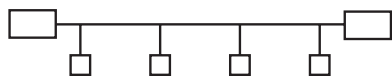
General rules and system topology

A) The connections among devices occur via a dedicated Bus cable type ED 063 3 (100 m) or ED 064 1 (500 m); the cable is shielded and sheathed, therefore it can be introduced in the same corrugated tube where the electrical cables pass.

B) The connection of devices can occur without distinction according to the diagrams shown below, on condition that the polarity of terminals is observed.

The ideal condition is the linear one, with only one power supply unit in the central part of the system or two power supply units at the two ends.

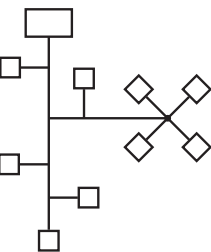
Linear



Star



Mixed



C) The total power absorbed by the devices must not exceed the sum of the maximum currents of the power supply units.

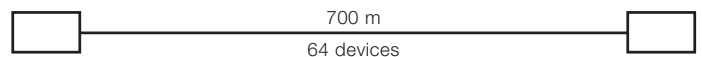
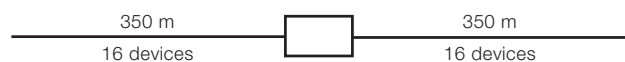
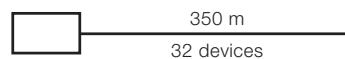
Upon voltage restoration, for example after a black-out, the actuators will keep the status they had before.

After resetting an actuator, it will go back to the open contact condition.

General rules for bus cable length

- Distance between power supply unit and device: 350m max.
- Distance among the devices: 700m max.
- BUS cable length: 1000m max.
- Distance between 2 power supply units: greater than 40m.
- If there are 2 power supply units, these have to be installed as far as possible from each other.

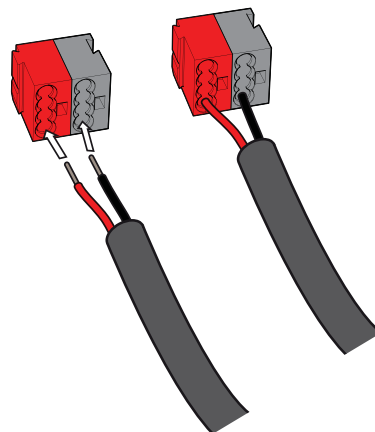
Schematic representation of the maximum bus cable length (the rectangle represents the power supply unit).



Installing a system

System installation foresees:

- 1) prepare the bus cable connecting the dedicated connector and paying particular attention to polarity;



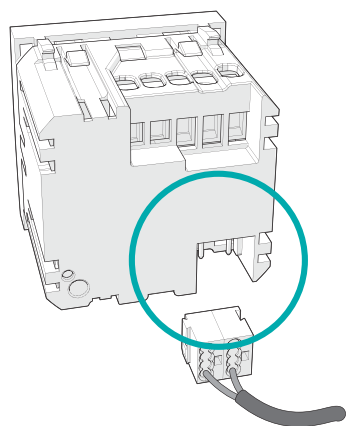
- 2) prepare the conventional electrical cable between the actuators and loads;
- 3) wire the power supply unit, the devices and the programming device;
- 4) supply the system.

First power on

At first power on the system is ready to be configured: the programming timed thermostat displays the factory set hour and date and all devices need to be programmed. The LED of the devices with integrated rocker switches are ON. All actuator devices with switch for local control can already control the corresponding loads.

Installation notes for recessed devices

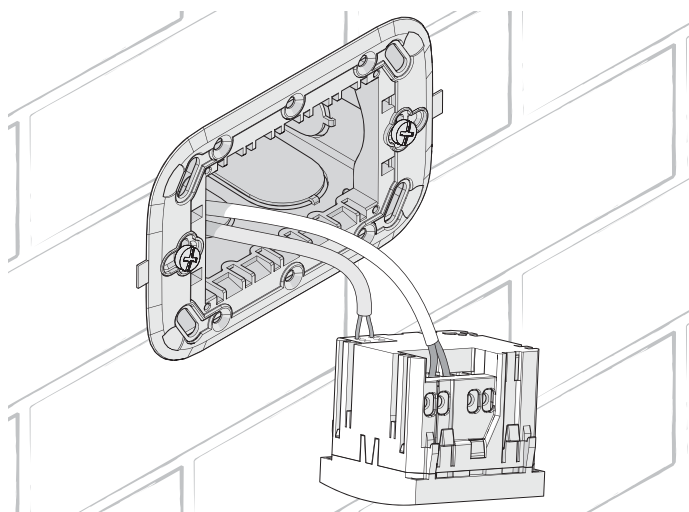
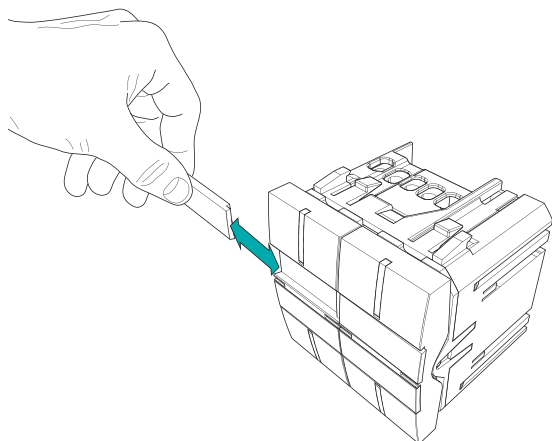
Flush mounted devices must always be installed with the bus connector oriented downwards. The terminals in the upper part of the devices allow conventional cables to be connected.



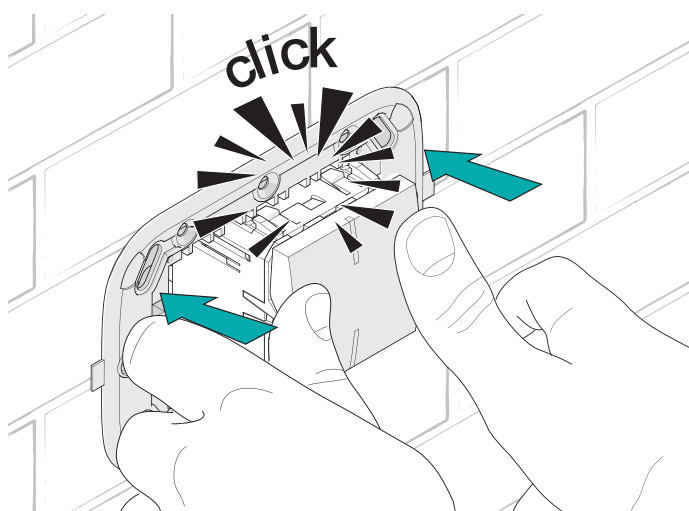
Each device package contains 1 bus connector and the instruction sheet with wiring diagrams and channel acquisition procedures.

The devices with 2 rocker switches are characterised by the presence of a plate holder on the front side.

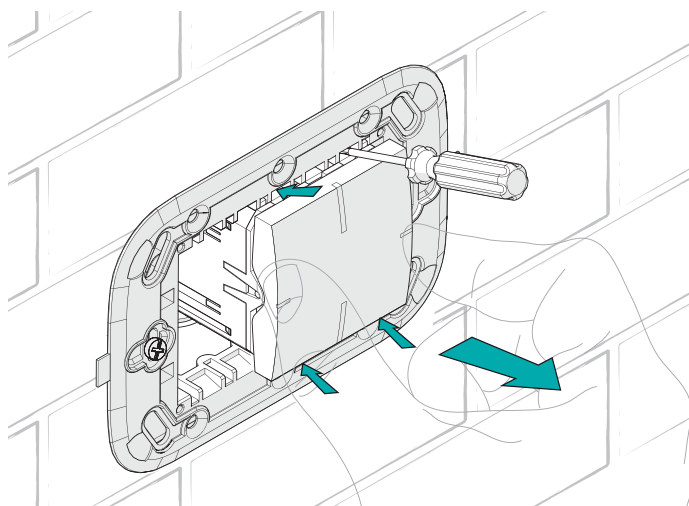
The packaging contains labels for rocker switch customisation.



Device installed and ready for configuration



The device must be fitted into the support as shown below.



Remove the device using the screwdriver on the claws, as shown below.

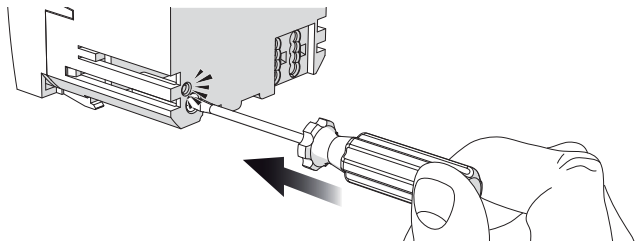
Mylos Home Automation - Technical details

Inputs and sensor units

2 binary inputs module

Description	Code
2 binary inputs module	2CSYE1001C
	2CSYE1001S

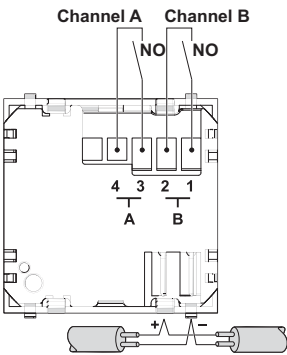
Acquisition



INPUTS:

- 1) press the programming key situated on the rear;
- 2) check the lighting of the programming LED;
- 3) close the contact corresponding to channel (A or B) which you want to acquire.

Connection diagram

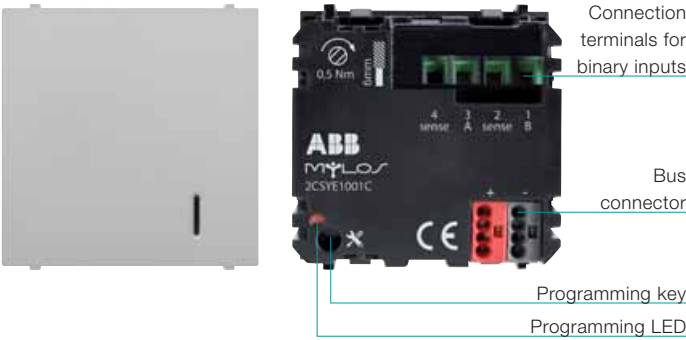


Technical data	
Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	4 mA
Number of inputs	2 on the rear free of SELV voltage (max 10m)
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20

Reference standards

EN50090-2-2

3 Components



The “2 binary inputs module” is a recessed device for the ABB Mylos Home Automation system.
There are two inputs on the rear for voltage free contacts such as relays, pushbuttons and switches.

Configurable parameters

INPUTS

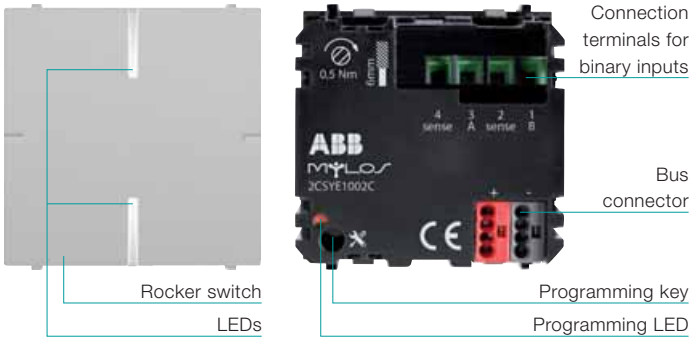
The device allows two input channels to be managed to which relay contacts, pusbuttons or switches can be associated.
Each input channel can be configured through the programming device for the following operating parameters.

- Switch: the input device allows the ON/OFF control of loads and devices.
- Dimmer: the input device allows the control to increase the light loads intensity (+ *Brighter*), decrease it (- *Darker*) or dimming in *Toggle* mode.
- Shutter: the input device allows the control of the rise, drop and rest of *Shutters* and *Blinds*.
- Pushbutton: the input device is a pushbutton which can be used to activate loads (*ON*), deactivate them (*OFF*) or in *Toggle* mode.
- Recall scenery: the input device allows an already configured scenery to be recalled.

2 binary inputs module, 1 rocker switch

Description	Code
2 binary inputs module, 1 rocker switch	2CSYE1002C
	2CSYE1002S

Components



The “2 binary inputs module, 1 rocker switch” is a recessed device for the ABB Mylos Home Automation system. There are two inputs on the rear for voltage free contacts such as relays, pushbuttons or switches. There is a rocker switch with programmable LED light indications on the front.

Configurable parameters

INPUTS

The device allows two input channels to be managed to which relay contacts, pusbuttons or switches can be associated. Each input channel can be configured through the programming device for the following operating parameters.

- Switch: the input device allows the ON/OFF control of loads and devices.
- Dimmer: the input device allows the control to increase the light loads intensity (+ *Brighter*), decrease it (- *Darker*) or dimming in *Toggle* mode.
- Shutter: the input device allows the control of the rise, drop and rest of *Shutters and Blinds*.
- Pushbutton: the input device is a pushbutton which can be used to activate loads (*ON*), deactivate them (*OFF*) or in *Toggle* mode.
- Recall scenery: the input device allows an already configured scenery to be recalled.

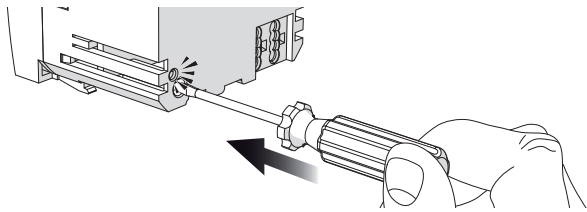
ROCKER SWITCH

The front rocker switch may be used to send a command to other Mylos Home Automation system devices. It can be configured with the *switch*, *dimmer*, *shutter* and *recall scenery*, operating modes as for the inputs.

LED MODE:

The LEDs associated to the command can be configured according to the following operating modes: *always on*, *always off*, *actuator status*, *inverted status* (the status is representative only for the actuators and the dimmers).

Acquisition



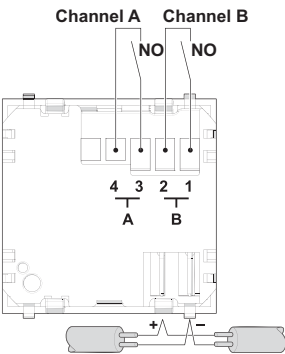
INPUTS:

- 1) press the programming key situated on the rear;
- 2) check the lighting of the programming LED;
- 3) close the contact corresponding to channel (A or B) which you want to acquire.

CONTROL:

- 1) press the programming key situated on the rear.
- 2) check the lighting of the programming LED;
- 3) press the front rocker switch to make the acquisition.

Connection diagram



Technical data

Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 9 mA
Number of inputs	2 on the rear free of SELV voltage (max 10m)
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20

Reference standards

EN50090-2-2

Mylos Home Automation - Technical details

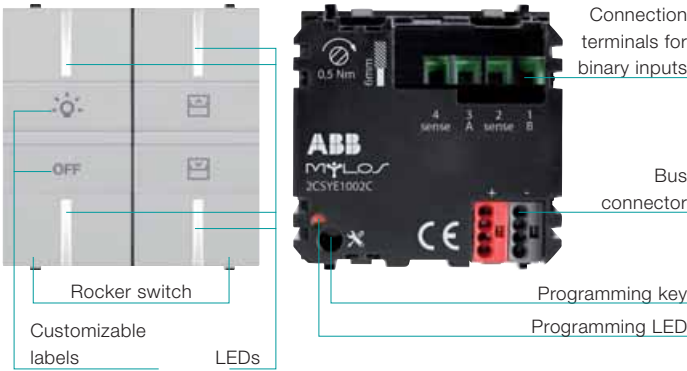
Inputs and sensor units

2 binary inputs module, 2 rocker switches

Description	Code
2 binary inputs module, 2 rocker switches	2CSYE1003C
(customisation labels included)	2CSYE1003S

3

Components



The “2 binary inputs module, 2 rocker switches” is a recessed device for the ABB Mylos Home Automation system. There are two inputs on the rear for voltage free contacts such as relays, pushbuttons or switches. There are two rocker switches with programmable LED light indications on the front.

Configurable parameters

INPUTS

The device allows two input channels to be managed to which relay contacts, pusbuttons or switches can be associated. Each input channel can be configured through the programming device for the following operating parameters.

- Switch: the input device allows the ON/OFF control of loads and devices.
- Dimmer: the input device allows the control to increase the light loads intensity (+ *Brighter*), decrease it (- *Darker*) or dimming in *Toggle* mode.
- Shutter: the input device allows the control of the rise, drop and rest of *Shutters and Blinds*.
- Pushbutton: the input device is a pushbutton which can be used to activate loads (*ON*), deactivate them (*OFF*) or in *Toggle* mode.
- Recall scenery: the input device allows an already configured scenery to be recalled.

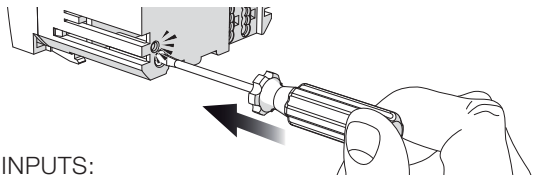
ROCKER SWITCHES

The front rocker switches may be used to send a command to other Mylos Home Automation system devices. Each command can be configured independently with *switch*, *dimmer*, *shutter* or *recall scenery* operating mode as for the inputs.

LED MODE

The LEDs associated to the commands can be configured according to the following operating modes: *always on*, *always off*, *actuator status*, *inverted status* (the status is representative only for the actuators and the dimmers).

Acquisition



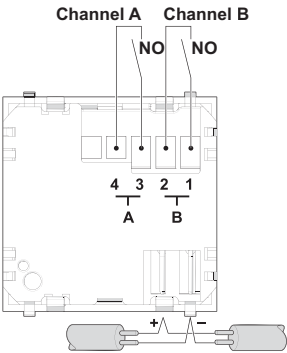
INPUTS:

- 1) press the programming key situated on the rear;
- 2) check the lighting of the programming LED;
- 3) press the lower part of the left rocker switch to acquire channel A. Press the lower part of the right rocker switch to acquire channel B.

ROCKER SWITCHES:

- 1) press the programming key situated on the rear;
- 2) check the lighting of the programming LED;
- 3) press the upper part of the left rocker switch or of the right rocker switch to make the acquisition.

Connection diagram



Technical data

Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 12 mA
Number of inputs	2 sul retro liberi da tensione SELV (max 10m)
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20

Reference standards

EN50090-2-2

2 binary inputs module, 1 module

Description	Code
2 binary inputs module, 1 module	2CSYE1011C
	2CSYE1011S

Components



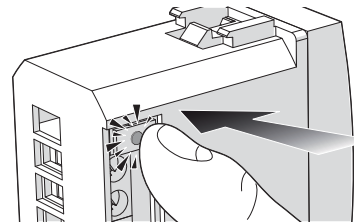
The “2 binary inputs module, 1 module” is a recessed device for the ABB Mylos Home Automation system. There are two inputs on the rear for voltage free contacts such as relays, keys and switches.

Configurable parameters

The device allows two input channels to be managed to which relay contacts, pushbuttons or switches can be associated. Each input channel can be configured through the programming device for the following operating parameters.

- Switch: Il dispositivo di ingresso permette il controllo ON/OFF di carichi e dispositivi.
- Dimmer: the input device allows the control to increase the light loads intensity (+ *Brighter*), decrease it (- *Darker*) or dimming in *Toggle* mode.
- Shutter: the input device allows the control of the rise, drop and rest of *Shutters* and *Blinds*.
- Pushbutton: the input device is a pushbutton which can be used to activate loads (*ON*), deactivate them (*OFF*) or in *Toggle* mode.
- Recall scenery: the input device allows an already configured scenery to be recalled.

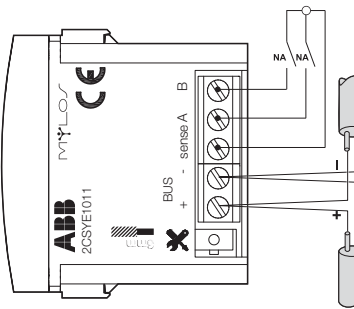
Acquisition



INPUTS:

- 1) press the programming key on the rear.;
- 2) check the lighting of the programming led;
- 3) close the contact corresponding to channel (A or B) which you want to acquire.

Connection diagram



Technical data

Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	4 mA
Number of inputs	2 on the rear free of SELV voltage (max 10m)
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20

Reference standards

EN50090-2-2

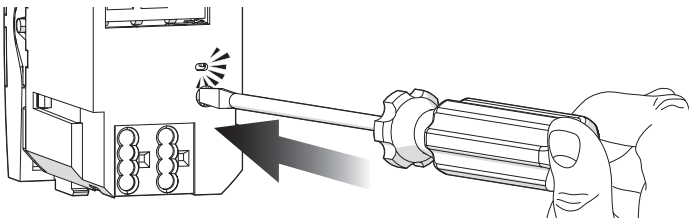
Mylos Home Automation - Technical details

Inputs and sensor units

Input module 1 rocker switch, 1 module

Description	Codice
Input module 1 rocker switch, 1 module	2CSYE1012C
	2CSYE1012S

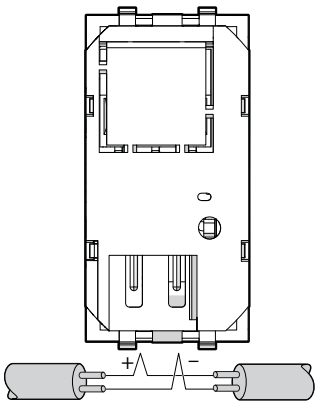
Acquisition



ROCKER SWITCH:

- 1) press the programming key situated on the rear.
- 2) check the lighting of the programming LED.

Connection diagram



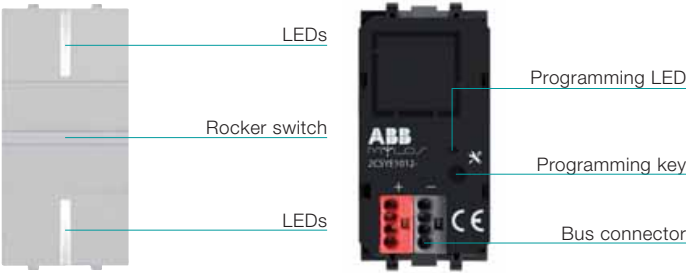
Technical data

Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 9 mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
BUS cable	standard bus connector
Degree of protection	IP20

Reference standards

EN50090-2-2

3 Components



The “Input module 1 rocker switch, 1 module ” is a recessed device for the ABB Mylos Home Automation system. The device has the bus connector housing and the programming key on the rear. There is a rocker switch with programmable LED lighting indications on the front.

Configurable parameters

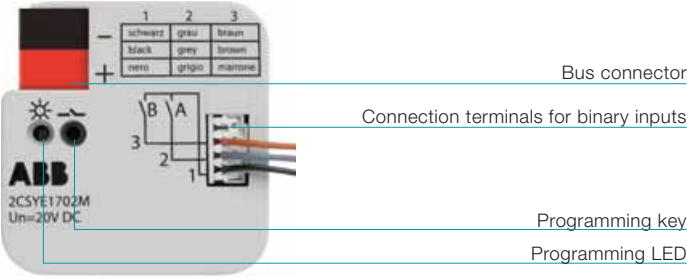
The front rocker switch may be used to send a command to other Mylos Home Automation system devices. It can be configured with the *switch*, *dimmer*, *shutter* and *recall scenery*, operating modes as for the inputs. The LEDs associated to the rocker switch can be configured according to the following operating modes: *always on*, *always off*, *actuator status*, *inverted status* (the status is representative only for the actuators and the dimmers).

Look up the manual of the programming device for further details regarding the configuration of the parameters.

2 recessed binary inputs module

Description	Code
2 recessed binary inputs module to integrate traditional devices in home automation	2CSYE1702M

Components



The “2 recessed binary inputs module” is a device of the ABB Mylos Home Automation system. There are connection terminals corresponding to two inputs for voltage free contacts such as contacts, relays, pushbuttons and switches.

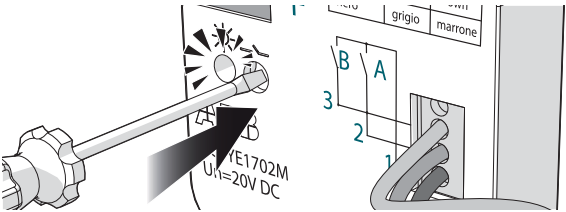
Configurable parameters

INPUTS

The device allows two input channels to be managed to which relay contacts, pusbuttons or switches can be associated. Each input channel can be configured through the programming device for the following operating parameters.

- Switch: the input device allows the ON/OFF control of loads and devices.
- Dimmer: the input device allows the control to increase the light loads intensity (+ *Brighter*), decrease it (- *Darker*) or dimming in *Toggle* mode.
- Shutter: the input device allows the control of the rise, drop and rest of *Shutters* and *Blinds*.
- Pushbutton: the input device is a pushbutton which can be used to activate loads (*ON*), deactivate them (*OFF*) or in *Toggle* mode.
- the input device allows an already configured scenery to be recalled.

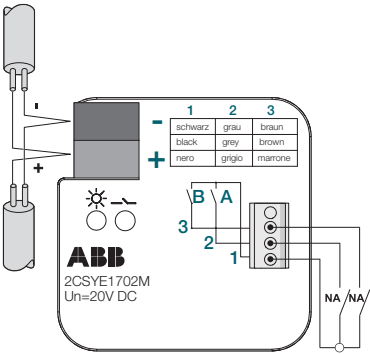
Acquisition



INPUTS:

- 1) press the programing key on the rear.;
- 2) check the lighting of the programming LED;
- 3) close the contact corresponding to channel (A or B) which you want to acquire.

Connection diagram



Technical data

Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	4 mA
Number of inputs	2 free of SELV voltage (max 10m)
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20

Reference standards

EN50090-2-2

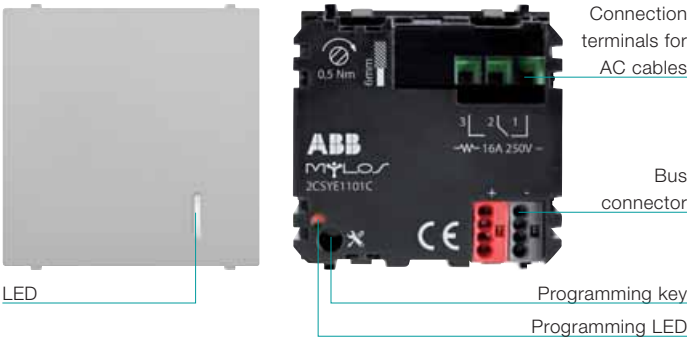
Mylos Home Automation - Technical details

Actuator units

16A relay actuator

Description	Code
16A relay actuator	2CSYE1101C
	2CSYE1101S

3 Components



The “16A relay actuator” is a recessed device for the ABB Mylos Home Automation system.

There is 1 actuator composed of 1 relay with exchange contact (NO/NC) at the back which can be configured for the control of loads of a different nature.

After programming, the relay may receive a commutation command from other Mylos Home Automation system devices or from conventional control devices (pushbuttons, switches, relays) connected to the Mylos Home Automation devices via input channels.

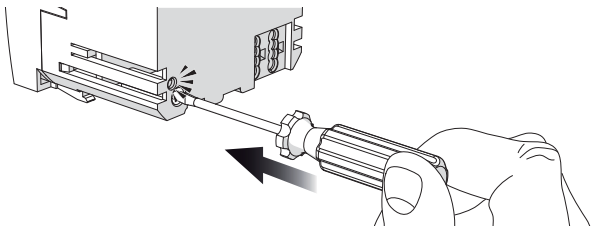
Configurable parameters

The device allows the activation and deactivation of an electric load when receiving a command signal through the bus.

The exchange contact of the relay can be used to manage electric loads of a different nature. The actuator can be configured to realise the following functions:

- delay: allows the setting of a deactivation delay with a selection of variable times (0s -> 5h max).

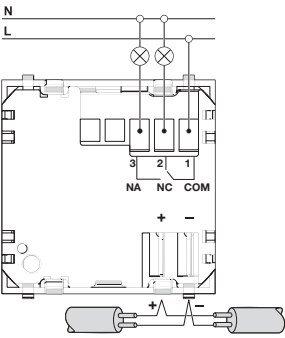
Acquisition



For the acquisition of the actuator:

- 1) press the programming key on the rear;
- 2) check the lighting of the programming LED.

Connection diagram



Technical data	
Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Max. load	AC1: 16A, 250V AC
	AC5: 10A, 250V AC (cosφ=0,6)

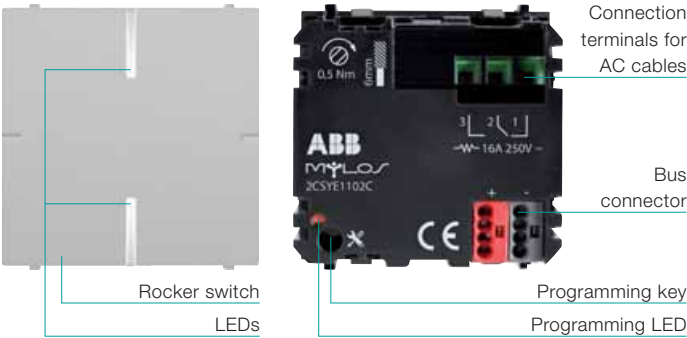
Reference standards

EN50090-2-2

16A relay actuator, 1 rocker switch

Description	Code
16A relay actuator, 1 rocker switch	2CSYE1102C
	2CSYE1102S

Components



The “16A Relay actuator, 1 rocker switch” is a recessed device for the ABB Mylos Home Automation system. There is 1 actuator composed of 1 relay with exchange contact (NO/NC) at the back which can be configured for the control of loads of a different nature. After programming, the device relay can receive a commutation command from other Mylos Home Automation system devices or from conventional control devices (pushbuttons, switches, relays) connected to the Mylos Home Automation devices via input channels. A rocker switch with programmable LED light indications is situated on the front which allows only the relay of the device itself to be activated.

Configurable parameters

ACTUATOR

The device allows the activation and deactivation of an electric load when receiving a command signal. The exchange contact of the relay can be used to manage electric loads of a different nature. The actuator can be configured to realise the following functions:

- delay: allows the setting of a deactivation delay with a selection of variable times (0s -> 5h max).

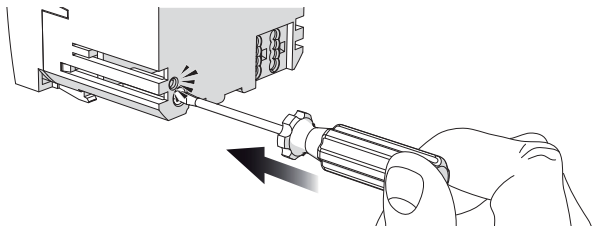
ROCKER SWITCH

The front rocker switch of the device cannot be configured and allows the relay of the device itself to be actuated independently.

LED MODE

The LEDs associated to the command can be configured according to the following operating modes: *always on*, *always off*, *actuator status*, *inverted status*.

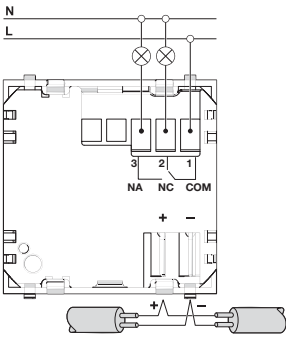
Acquisition



For the acquisition of the device:

- 1) Press the programming key on the rear;
- 2) Check the lighting of the programming LED.

Connection diagram



Technical data	
Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Max. load	AC1: 16A, 250V AC AC5: 10A, 250V AC (cosφ=0,6)

Reference standards

EN50090-2-2

Mylos Home Automation - Technical details

Actuator units

16A relay actuator, 2 rocker switches

Description	Code
16A relay actuator, 2 rocker switches	2CSYE1103C
(customisation labels included)	2CSYE1103S

3

Components

The diagram shows the front and back views of the 16A relay actuator. The front view (left) features two rocker switches, each with a customisable label and an LED indicator. The back view (right) shows the internal components, including the relay, connection terminals for AC cables, a bus connector, a programming key, and a programming LED.

- rocker switches
- Customisable labels
- LEDs
- Connection terminals for AC cables
- Bus connector
- Programming key
- Programming LED

The “16A Relay actuator, 2 rocker switches” is a recessed device for the ABB Mylos Home Automation system. There is 1 actuator composed of 1 relay with exchange contact (NO/NC) at the back which can be configured for the control of loads of a different nature. After programming, the device relay can receive a commutation command from other Mylos Home Automation system devices or from conventional control devices (pushbuttons, switches, relays) connected to the Mylos Home Automation devices via input channels. On the front there is a rocker switch that allows to control only the relay of the device itself and a configurable rocker switch. Both of the commands are equipped with programmable LED light indications.

Configurable parameters

ACTUATOR

The device allows the activation and deactivation of an electric load when receiving a command signal. The exchange contact of the relay can be used to manage electric loads of a different nature. The actuator can be configured to realise the following functions:

- delay: allows the setting of a deactivation delay with a selection of variable times (0s -> 5h max).

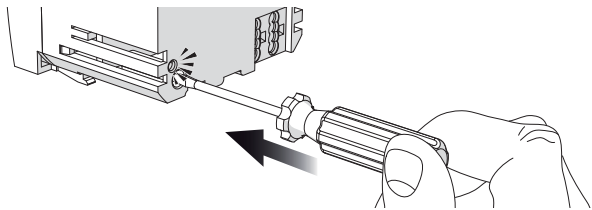
ROCKER SWITCHES

The right rocker switch can be used to send a command to other Mylos Home Automation system devices. It can be configured independently *with switch, dimmer, shutter and recall scenery* operating modes. The left rocker switch cannot be configured but allows only the relay of the device itself to be actuated.

LED MODE

The LEDs associated to the rocker switches can be configured according to the following operating modes: *always on, always off, actuator status, inverted status*.

Acquisition

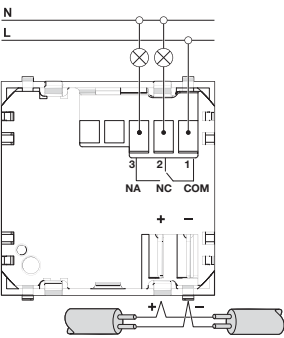


- ACTUATOR:
- 1) press the programming key situated on the rear;
 - 2) check the lighting of the programming LED;
 - 3) press the left rocker switch.

- ROCKER SWITCH:
- 1) press the programming key situated on the rear;
 - 2) check the lighting of the programming LED;
 - 3) press the right rocker switch.

To exchange the configurable rocker switch and the one for local control of the actuator, before the acquisition press the programming key, check the lighting of the programming LED lights and press the lower part of the switch you want to use as the local control of the actuator.

Schema di collegamento



Technical data	
Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Max. load	AC1: 16A, 250V AC
	AC5: 10A, 250V AC (cosφ=0,6)

Reference standards
EN50090-2-2

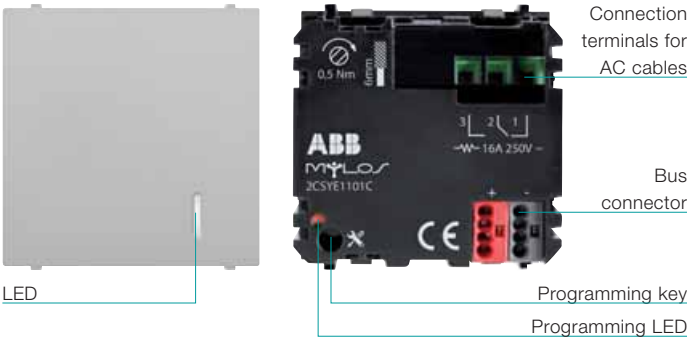
Mylos Home Automation - Technical details

Actuator units

230V AC shutter actuator

Description	Code
230V AC shutter actuator, 1 rocker switch	2CSYE1104C
	2CSYE1104S

3 Components



The “230V AC Shutter actuator” is a recessed device for the ABB Mylos Home Automation system. On the rear there is an actuator with connection terminals for the interlocked rise and drop of 230V AC motorised shutters, curtains and blinds. The actuator can be actuated by other input devices of Mylos Home Automation systems suitably configured by programming.

Warning: the running time of the shutter is not parameterizable through this device: in the absence of a new command the actuator status will be maintained for a period of 3 minutes. The shutters/blinds or similar must be provided with a microswitch device.

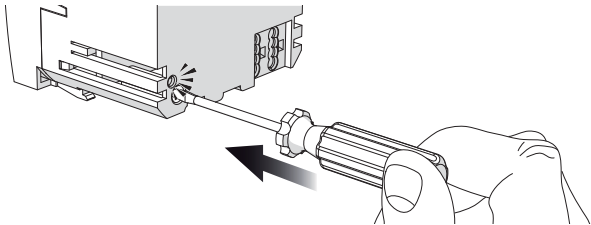
Configurable parameters

ACTUATOR

The device has an actuator dedicated to the control of motorised shutters. The actuator can be configured according to two distinct operating modes:

- Blind: allows the rise, drop and rest of the “blind” to be controlled with the discrete regulation of the angle of incidence of the rising and falling plates;
- Shutter: allows the rise, drop and rest of the conventional shutters and motorised curtains to be controlled.

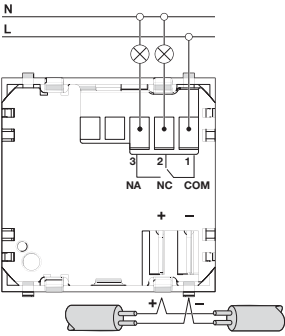
Acquisition



For the acquisition of the actuator:

- 1) press the programming pushbutton situated on the rear;
- 2) check the lighting of the programming LED.

Connection diagram



Technical data	
Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Max. load	8A resistive, 3A inductive 230V AC

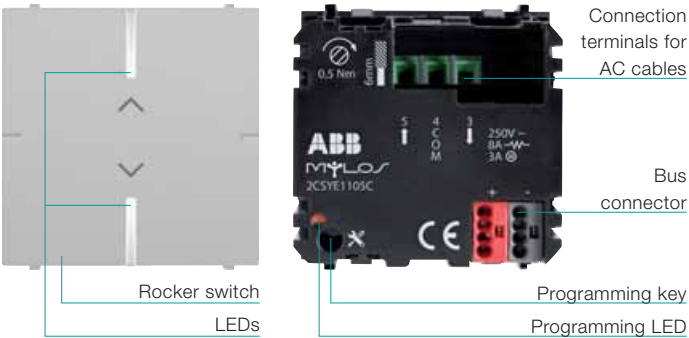
Reference standards

EN50090-2-2

230V AC shutter actuator, 1 rocker switch

Description	Code
230V AC shutter actuator, 1 rocker switch	2CSYE1105C
	2CSYE1105S

Components



The “230V AC Shutter actuator, 1 rocker switch” is a recessed device for the ABB Mylos Home Automation system. On the rear there is an actuator with connection terminals for the interlocked rise and drop of 230V AC motorised shutters, curtains and blinds. On the front there is a rocker switch with programmable LED light indications which allows the independent control of the motorised shutter connected to the actuator of the same device. The actuator can also be actuated by other input devices of Mylos Home Automation systems suitably configured by programming.

Warning: the running time of the shutter is not parameterizable through this device: in the absence of a new command the actuator status will be maintained for a period of 3 minutes. The shutters/blinds or similar must be provided with a microswitch device.

Configurable parameters

ACTUATOR

The device has an actuator dedicated to the control of motorised shutters. The actuator can be configured according to two distinct operating modes:

- Blind: allows the rise, drop and rest of the “blind” to be controlled with the discrete regulation of the angle of incidence of the rising and falling plates;
- Shutter: allows the rise, drop and rest of the conventional shutters and motorised curtains to be controlled.

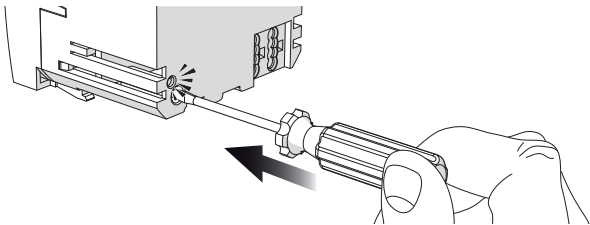
ROCKER SWITCH

The front rocker switch may only be used for the local control of the shutter actuator, it cannot be configured.

LED MODE

The LEDs associated to the command can be configured according to the following operating modes: *always on*, *always off*, *actuator status*, *inverted status*.

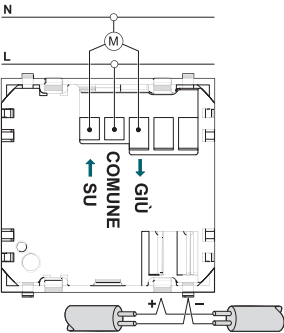
Acquisition



For the acquisition of the actuator:

- 1) Press the programming pushbutton situated on the rear.
- 2) Check the lighting of the programming LED.

Connection diagram



Technical data	
Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Max. motor load	8A resistive, 3A inductive 230V AC

Reference standards

EN50090-2-2

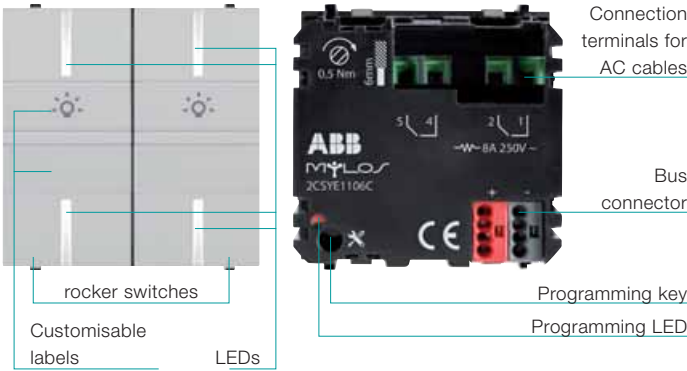
Mylos Home Automation - Technical details

Actuator units

2X8A relay actuator, 2 rocker switches

Description	Code
2X8A relay actuator, 2 rocker switches	2CSYE1106C
(Including personalization labels)	2CSYE1106S

3 Components



The “2X8A Relay actuator, 2 rocker switches” is a recessed device for the ABB Mylos Home Automation system. There are 2 actuators at the back of the device, each one of them is composed of a relay (NO) which can be configured for the control of loads of a diverse nature. After programming, the devices relay can receive a commutation command from the device itself, from other Mylos Home Automation system devices or from conventional control devices (pushbuttons, switches, relays) which are connected to Mylos Home Automation devices via input channels. On the front side the device has 2 rocker switches with programmable LED light indications which allow only the relay of the device itself to be activated.

Configurable parameters

ACTUATORS

The device allows the activation and deactivation of electric loads when receiving command signals. Each one of the 2 actuators can be configured to realise the following functions:

- delay: allows the setting of a deactivation delay with a selection of variable times (0s -> 5h max).

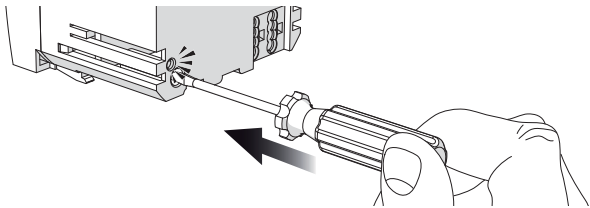
ROCKER SWITCHES

The front rocker switches may be used to control the respective device actuators, they are not programmable. The left rocker switch controls actuator 1, the right rocker switch controls actuator 2.

LED MODE

The LEDs associated to the rocker switches can be configured according to the following operating modes: *always on, always off, actuator state, inverted state.*

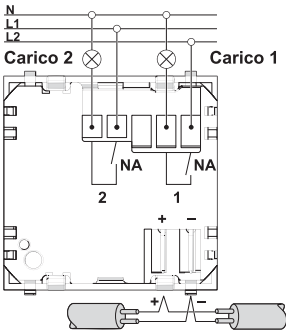
Acquisition



ACTUATORS:

- 1) press the programing key on the rear;
- 2) check the lighting of the programming LED;
- 3) Press the left rocker switch to acquire actuator 1, press the right rocker switch for the acquisition of actuator 2.

Connection diagram



Technical data

Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	11 mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Max. load	8A resistive, 3A inductive

Reference standards

EN50090-2-2

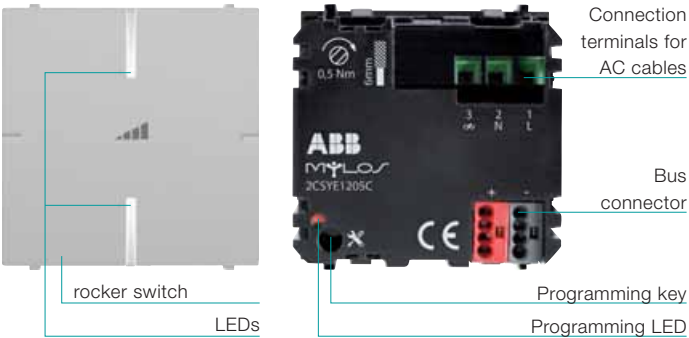
Mylos Home Automation - Technical details

Lighting and comfort

350W dimmer actuator, 1 rocker switch

Description	Code
350W dimmer actuator, 1 rocker switch	2CSYE1205C
	2CSYE1205S

Components



The “350W Dimmer actuator, 1 rocker switch” is a recessed device for the ABB Mylos Home Automation system. An actuator with the connection terminals for light loads allowing dimming regulation is present on the rear of the device. After programming, the dimming command may come from the device itself, from other Mylos Home Automation system devices or from conventional control devices (pushbuttons, switches, relays) which are connected to Mylos Home Automation devices via input channels. A rocker switch is situated on the front with programmable LED light indications, and allows only the load connected to the dimmer itself to be activated.

Configurable parameters

ACTUATOR

The device allows the dimming of suitable light loads connected to the relative outlet.

The following operating parameters can be modified:

- dimming speed: allows 3 dimming speeds to be set (slow/medium/fast)

LOAD

Inductive (for the non-electric transformers, incandescent bulbs), capacitive (for electronic transformers), automatic (selects between inductive and capacitive, in case of flickering try manual setting). Always look up the datasheet of the light load to be regulated to ensure that the correct operating mode is selected.

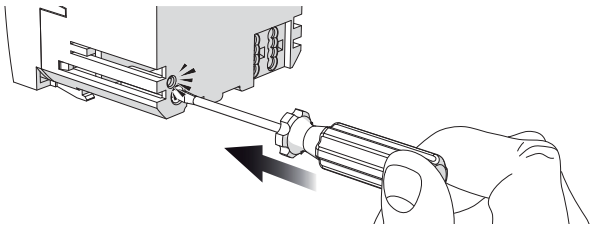
ROCKER SWITCH

The front rocker switch may only be used for the local control of the dimmer, it cannot be configured.

LED MODE

The LEDs associated to the rocker switch can be configured according to the following operating modes: *always on*, *always off*, *actuator state*, *inverted state*.

Acquisition



USCITE

For the acquisition of the device:

- 1) press the programing key on the rear;
- 2) Check the lighting of the programming LED.

Connection diagram



Technical data	
Supply	via bus and relays
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	7 mA (from bus)
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Maximum adjustable load	350 W 230V AC

Reference standards

EN50090-2-2, EN60669-2-1

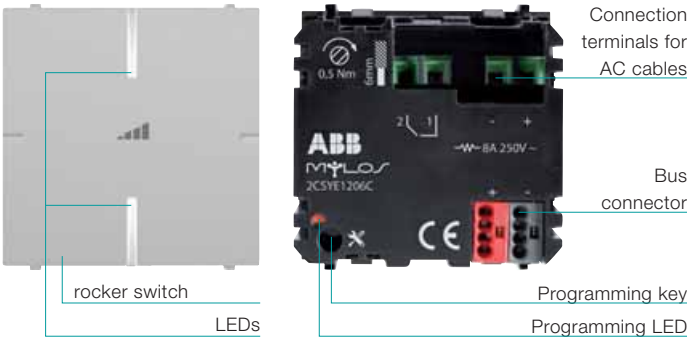
Mylos Home Automation - Technical details

Lighting and comfort

1/10V DC dimmer actuator, 1 rocker switch

Description	Code
1/10V DC dimmer actuator, 1 rocker switch	2CSYE1206C
	2CSYE1206S

3 Components



The “1/10V DC Dimmer actuator, 1 rocker switch” is a recessed device for the ABB Mylos Home Automation system. Terminals for the connection of the external actuators such as ballast, dimmers with 1/10V input are situated on the rear. There are 4 connection terminals on the rear: 2 corresponding to a relay for the activation of the external actuator and two corresponding to a 1/10V input for the regulation of the same. After programming, the dimming command may come from the device itself, from other devices of the Mylos Home Automation system or from conventional control devices (pushbuttons, switches, relays) which are connected to Mylos Home Automation devices via input channels. A rocker switch is situated on the front with programmable LED light indications which allows only the load connected to the dimmer itself to be activated.

Configurable parameters

ACTUATOR

The device allows the dimming of suitable light loads connected to the relative outlet.

The following operating parameters can be modified:

- dimming speed: allows 3 dimming speeds to be set (slow/medium/fast)

ROCKER SWITCH

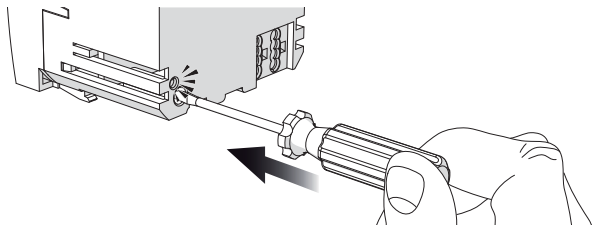
The front rocker switch may only be used for the local control of the dimmer.

LED MODE

The LEDs associated to the switch can be configured according to the following operating modes: *always on*, *always off*, *actuator status*, *inverted status*.

Warning: Look up the manual of the programming device for further details regarding the configuration of the parameters.

Acquisition

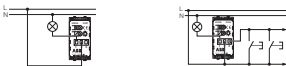


ACTUATOR

For the acquisition of the device:

- 1) press the programming key 3 situated on the rear;
- 2) check the lighting of the programming LED 6.

Connection diagram



Technical data	
Supply	via bus and relays
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Input voltages	1-10V DC
Max. relay load	AC1: 16A, 250V AC AC5: 10A, 250V AC (cosφ=0,6)
Max dimmer outlet current	1mA

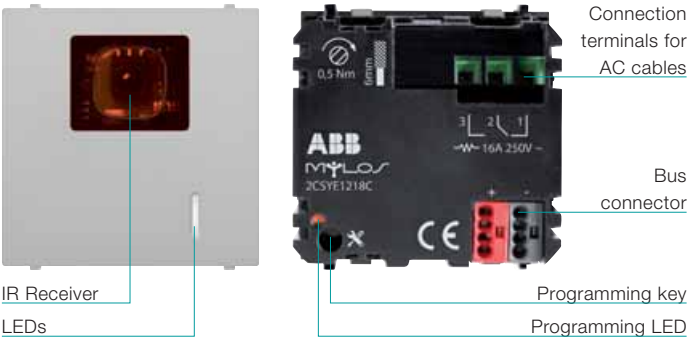
Reference standards

EN50090-2-2

IR receiver for remote control

Description	Code
IR receiver for remote control	2CSYE1218C
	2CSYE1218S

Components



The “IR receiver for remote control” is a recessed device for the ABB Mylos Home Automation system.

The device allows incoming infrared signals to be received through a dedicated remote control (ref. 2CSE1217EL) which manages up to 6 different channels.

1 actuator composed of 1 relay with outgoing exchange contact (NO/NC) is situated on the rear of the device, and it can be configured for the control of loads of a different nature.

Configurable parameters

INPUTS

The device allows up to 6 input channels corresponding to IR remote control pushbuttons to be managed.

The channels corresponding to keys from 2 to 6 can be configured through the programming device for the following operating parameters.

- Switch: il pulsante del telecomando permette il controllo ON/OFF, ritardo all’attivazione/disattivazione con selezione del tempo variabile (0s -> 5h max).
- Dimmer: the remote control key allows to increase the light loads intensity (+ *Brighter*), decrease it (- *Darker*) or dimming in *Toggle* mode.
- Shutter: the remote control pushbutton allows the control of the rise, drop and rest of *Shutters* and *Blinds*.
- Pushbutton: the remote control pushbutton can be used to activate loads (ON), deactivate them (OFF) or in *Toggle* mode.
- Recall scenery: the remote control pushbutton allows an already configured scenery to be recalled.

The input channel corresponds to the number 1 pushbutton of the remote control and is not configurable: this pushbutton only allows the control of the receiver’s relay in commutation.

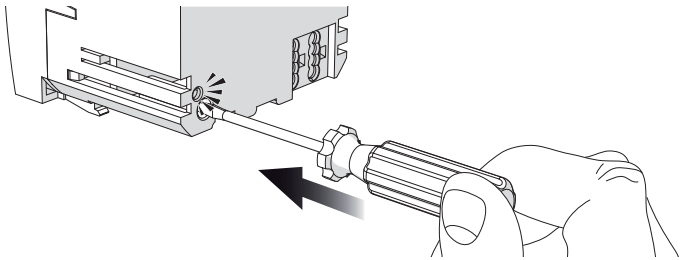
ACTUATOR

The device allows the activation and deactivation of an electric load when receiving a command signal.

The exchange contact can be used to manage electric loads of a different nature. The actuator can be configured to realise the following functions:

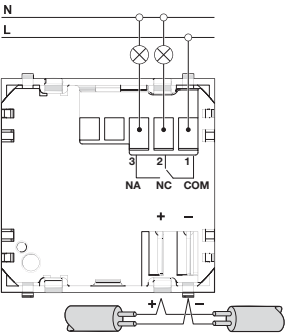
- delay: allows the ON/OFF, deactivation delay with a selection of variable times (0s -> 5h max).

Acquisition



- INGRESSI:
- 1) press the programming key situated on the rear;
 - 2) check the lighting of the programming LED;
 - 3) press the pushbuttons (from 2 to 6) of the remote control which correspond to the channel you wish to acquire.
- ACTUATOR:
- 1) press the programming key 3 situated on the rear;
 - 2) check the lighting of the programming LED;
 - 3) press key 1 of the remote control.

Connection diagram



Technical data

Supply	via BUS
BUS cable	ED 063 3 (100m) o ED 064 1 (500m)
Absorption	ower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	standard bus connector
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20

Reference standards

EN50090-2-2

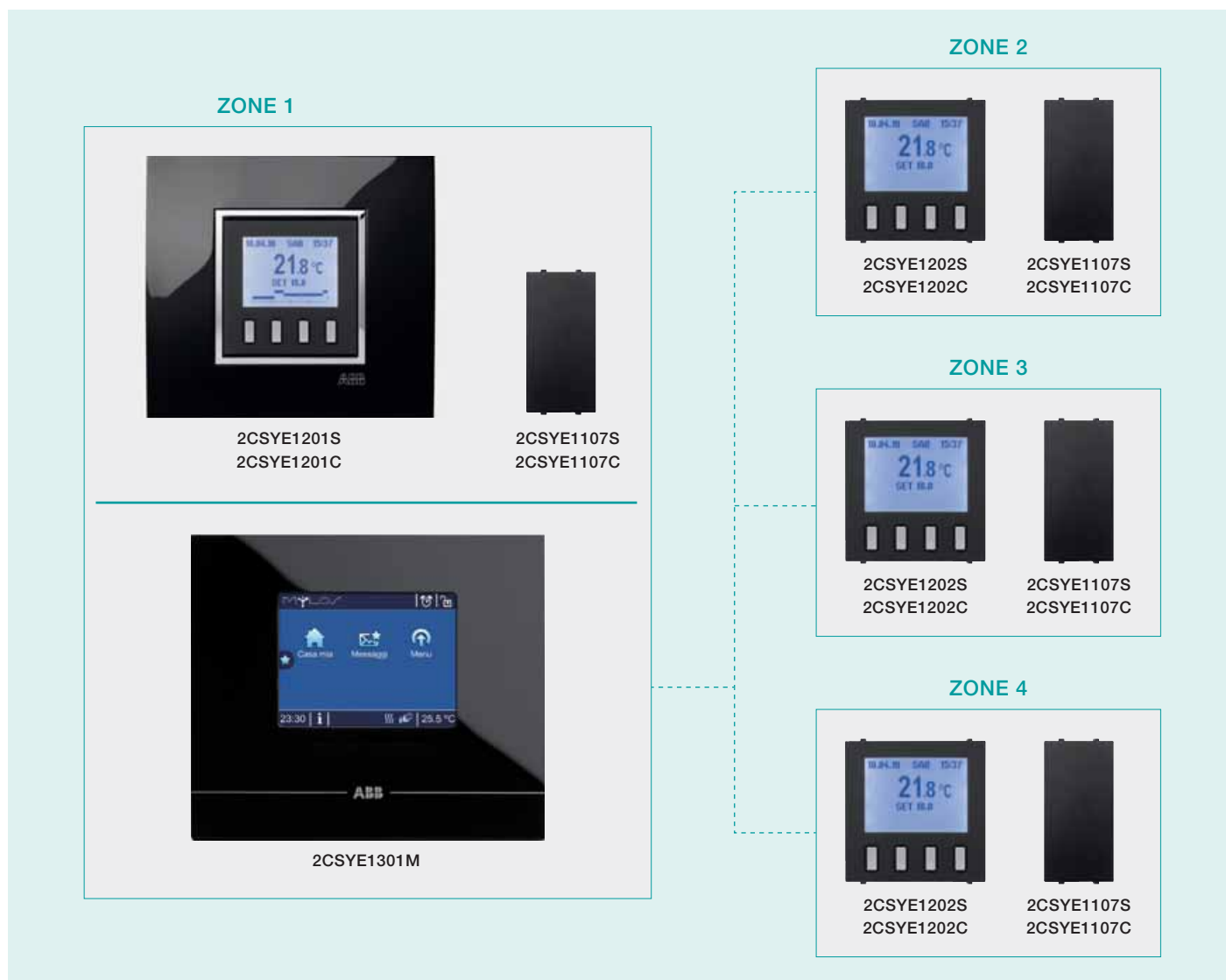
* Prodotto venduto separatamente.

Mylos Home Automation - Technical details

Heat regulation

3

The Mylos Home Automation system allows you to manage a heat regulation system divided into 4 different zones. The main zone is the zone where the programming device is located (time-programmed thermostat or Mylos Touch), which also performs the function of the heat regulation Master device. In the other three zones, probe thermostats are used, code 2CSYE1202C/S.



It is possible to control the entire heat regulation system locally from the Master device, forcing a change of state in the configured zones. The Mylos Touch display also shows the active state in each zone and the corresponding set-point temperatures.

The same type of control can be achieved remotely via GSM when interfacing is set up with the Domuslink central unit equipped with interface 2CSYE1703M (see page 3/38).

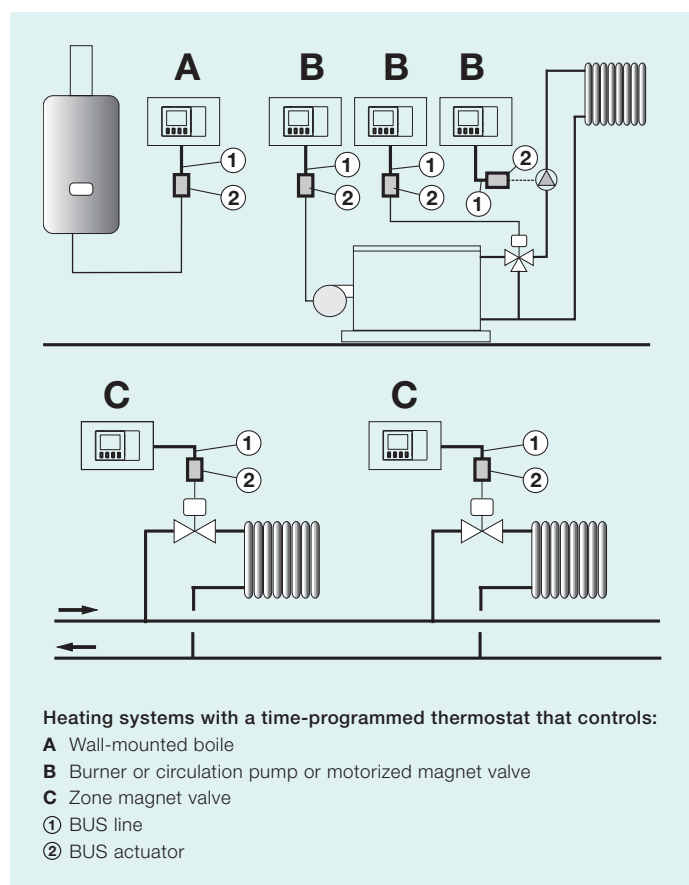
From the Master device you can define independent time-based programs (Automatic Mode) for each of the 4 zones: either the time-programmed thermostat or the Mylos Touch panel will send the change of state signal to each thermostat at the established time.

Mylos touch has 3 internal integrated relays, one of which can be associated via programming to control of the Master zone (see page 3/40).

The time-programmed thermostat 2CSYE1201C/S and the thermostats 2CSYE1202C/S, on the other hand, do not have an integrated actuator for direct control of the magnet valve.

Therefore you need to have a BUS actuator that can be associated via programming (e.g. 2CSYE1107C/S).

You are advised to keep the actuator at a distance from the flush-mounted box of the thermostat for a more accurate reading of the temperature by the sensor, as illustrated in the following schematic diagrams:



It is possible to define the behaviour of the heat regulation system in the event of remote manual forcing, with one of 3 operating possibilities:

- Automatic Temperature Mode: at the established time, the Master device sends the remote thermostat the temperature to which it has to be set.
- Forced Automatic Mode: at the established time the Master device sends the remote thermostat the temperature to which it has to be set, forcing it into operation. The command is always performed.
- Forced Automatic Mode + state: at the established time the Master device sends the remote thermostat the temperature to which it has to be set, forcing it into automatic operation.

In addition, the state of the Master device is replicated on the thermostat (e.g. if the ANTI-FREEZE mode is set on the time-programmed thermostat, this state is replicated on the thermostat). The command is always performed.

The predefined Set Point temperatures and the settings for each zone can be defined independently on the respective thermostats.

The technical characteristics of the time-programmed thermostat/Mylos Home Automation thermostat are listed below.

Technical specifications

Power supply	via BUS with dedicated connector
Blue display backlighting	time for 6 seconds from the last time that a key was pressed
Output type	on delocalized actuator via BUS
Temperature levels that can be set	in addition to ANTI-FREEZE and TOO WARM
Ambient temperature display field	0 °C ÷ +37.7 °C
Ambient temperature resolution	0.1°C
Tolerance on temperature reading	± 0.5 °C
Ambient temperature reading correction (Offset)	adjustable -3 °C ÷ +3 °C (default 0,0 °C)
ANTI-FREEZE temperature	Adjustable 5 °C ÷ 40 °C (default 5 °C)
TOO WARM temperature	Adjustable 5 °C ÷ 40 °C (default 35 °C)
ON-OFF regulation modes	adjustable hysteresis 0.1°C ÷ 1°C (default 0.1 °C)
Adjustment mode	time base 10 min, not adjustable
PID-proportional	

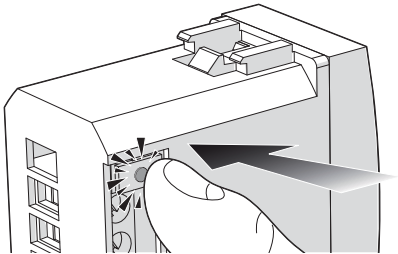
Mylos Home Automation - Technical details

Heat regulation

8A relay actuator, 1 module

Description	Code
8A relay actuator, 1 module	2CSYE1107C
	2CSYE1107S

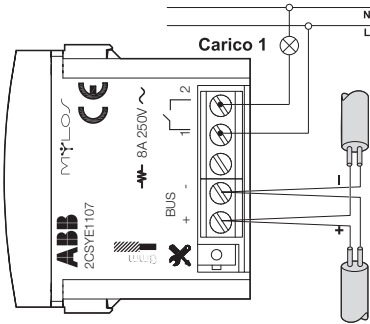
Acquisition



For the acquisition of the actuator:

- 1) press the programming key 1 on the side of the device;
- 2) check the lighting of the programming LED.

Connection diagram



Technical data	
Supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	lower than 11mA
Use environment	inside, dry
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non condensating)
Connection to bus	screw terminal max 0.5 Nm
Electric connections	screw terminal max 0.5 Nm
Degree of protection	IP20
Max. relay load	8A resistive, 3A inductive

Reference standards

EN50090-2-2

3 Components



The “8A relay actuator, 1 module” is a recessed device for the ABB Mylos Home Automation system.

The device has 1 actuator composed of 1 relay with NO contact on the rear which can be configured for the control of loads of a different nature.

After programming, the relay of the device may receive a commutation command from other Mylos Home Automation system devices or from conventional control devices (pushbuttons, switches, relays) which are connected to Mylos Home Automation devices via input channels.

Configurable parameters

The device allows the activation and deactivation of an electric load when receiving a command signal.

The exchange contact can be used to manage electric loads of a different nature. The actuator can be configured to realise the following functions:i:

- delay: allows the setting of a deactivation delay with a selection of variable times (0s -> 5h max).

Warning: Look up the manual of the programming device for further details regarding the configuration of the parameters.

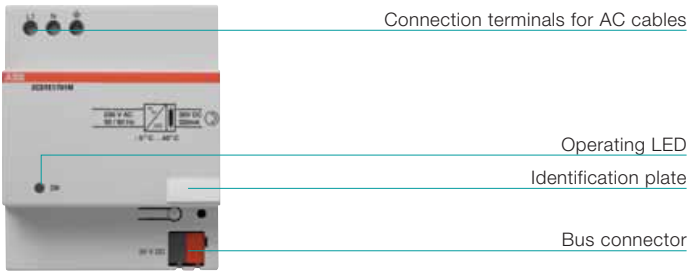
Mylos Home Automation - Technical details

Power supplies and accessories

Bus power supply unit

Description	Code
Bus power supply unit 320mA, 30V~, 4 DIN modules	2CSYE1701M

Components

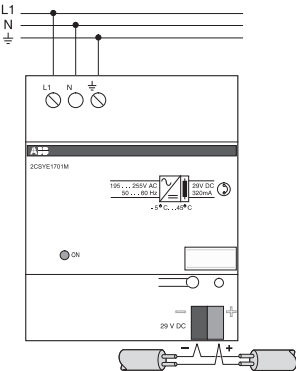


The power supply unit supplies and controls the power supply of the Mylos Home Automation system. The bus line is isolated from the power supply by an integrated coil. The power supply unit is connected to the bus line through a bus connector. The device is protected from short circuits.

Functions

In case of the removal and subsequent restoration of the AC supply voltage, the power supply unit guarantees the correct operation of the Mylos Home Automation system's devices and the callback of the states prior to the voltage drop. If the BUS power supply is removed, the system devices maintain the state of the actuators unaltered.

Connection diagram



Technical data	
Supply voltage	230V AC +10/-15%, 50...60 Hz
BUS cable	ED 063 3 (100m) o ED 064 1 (500m)
Outputs:	
- voltage	30V DC, +/- 1V, SELV
- current	320 mA, protec. against short circuit
- maintenance time	> 100 ms
Display and command elements	
- supply	3 screw teminals Cable section: 0,2 ... 2,5 mm² braid 0,2 ... 4,0 mm² unipole
- output	terminale di connessione BUS
Degree of protection	IP 20 according to EN 60 529
Ambient temperature	
- operation	-5C ... 45C
- storing	-25C ... 55C
- transport	-25C ... 70C
Execution	modular, pro M
Case colour	Plastic container, grey
Assembly	on 35mm guide, DIN EN 50022
Measurements	90 x 72 x 64 mm (H x L x P)
Depth/Width	68 mm / 4 modules of 18 mm
Weight	0.210 kg

Reference standards

EC standard according to the EMC indications and those for low voltage

Mylos Home Automation - Technical details

Power supplies and accessories

DomusTech interface

Description	Code
DomusTech interface	2CSYE1703M

Components



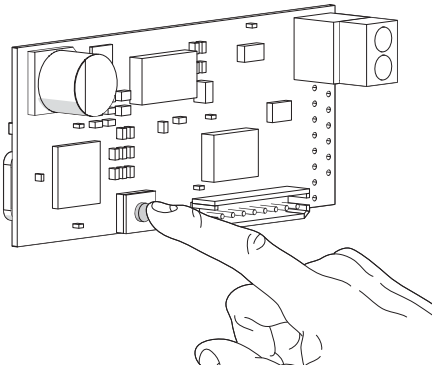
- Programming LED
- Programming key
- DomusLink central unit connector
- BUS connection terminal

The Mylos Home Automation - DomusTech interface allows connection between the ABB Mylos Home Automation system and the DomusLink central unit.

This interface allow you to remotely control the home automation system via SMS commands using the GSM module of the central unit.

It is also possible to activate interaction functions between the automation and anti-intrusion systems, for example performing commands on activation/deactivation of a burglar alarm or when a technical/intrusion alarm is detected by the DomusLink central unit.

Instructions for acquisition



- 1) Press the programming pushbutton located on the interface.
- 2) Make sure that the programming LED is on.

Summary table of remote operation SMS commands

The available SMS commands for controlling the remote operation functions of the Domuslink station are listed. All you have to do is send an SMS to the number of the SIM contained in the central unit from an enabled telephone number. Alternatively, you can use the dedicated Java®/iPhone®/Android® application. For further information look up the manual of the DomusLink central unit.

Function	SMS
Activation/	A1/A0 = activation/deactivation
Deactivation of total safety	of total safety
Group with Remote Control 1	B1/B0 = activation/deactivation
	of group 1 actuators
Group with Remote Control 2	C1/C0 = activation/deactivation
	of group 2 actuators
Remote scenario 1	D1 = Call up scenario 1
Remote scenario 2	F1 = Call up scenario 2
Status Request	E1 = global system request
	E2 = only safety
	E3 = only climate and safety
	E4 = only safety actuators
	E5 = only automation been
Time-programmed thermostat command	T0 = System Off
	T1 = Manual Operation
	T2 = Anti-freeze Operation
	T3 = Automatic Operation
Remote Thermostat 1 command	T4 = System Off
	T5 = Manual Operation
	T6 = Anti-freeze Operation
	T7 = Automatic Operation
Remote Thermostat 2 command	T8 = System Off
	T9 = Manual Operation
	TA = Anti-freeze Operatio
	TB = Automatic Operation
Remote Thermostat 3 command	TC = System Off
	TD = Manual Operation
	TE = Anti-freeze Operatio
	TF = Automatic Operatio

Each SMS command must be sent followed by the PIN of the central station from an enabled telephone number.

Example: **A1 2222**

Central PIN

Space

SMS command

Alternatively, the GSM remote operation commands can be managed with the handy ABB “Menu Domotico” application:



Download the application
for iPhone (Italian only)

Download the application
for Android (Italian only)

Technical specifications	
Power supply	via BUS
BUS cable	ED 063 3 (100m) or ED 064 1 (500m)
Absorption	less than 10 mA
Place of use	inside the DomusLink station
Operating temperature	-5 - +45°C
Relative humidity	max 93% (non-condensing)
Connection to the BUS	BUS screw connecto
Protection class	IP20

Reference standards
CEI EN 50090

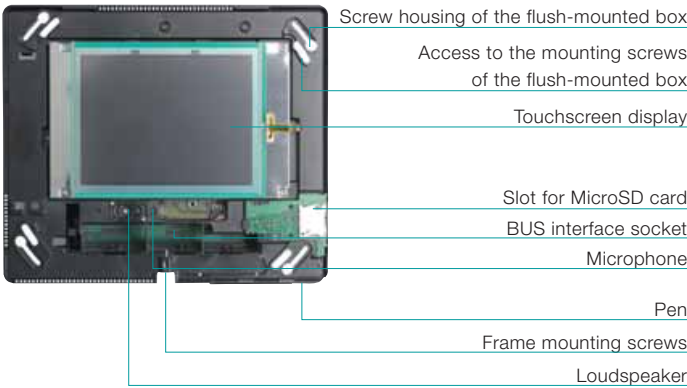
Mylos Home Automation - Technical details

Mylos Touch control unit

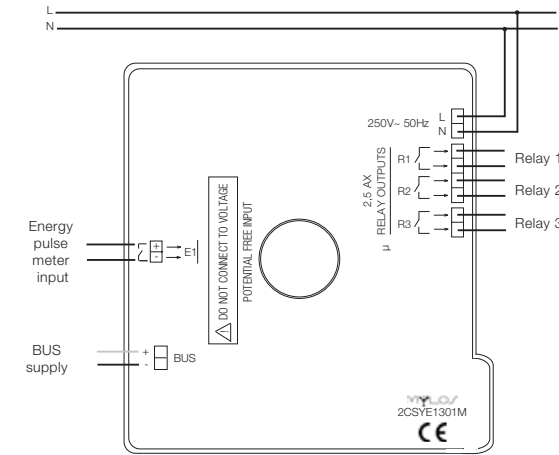
Mylos touch control unit

Description	Code
Mylos Touch	2CSYE1301M

Components



Wiring diagram



Note: for the connection of a external energy pulse meter it is advised to use a C11 or B21 single phase energy meter.




C11 B21

Description	Type	Code
C11 single-phase electronic energy meter	C11	M670550
B21 single-phase electronic energy meter	B21	2CMA100149R1000

Technical specifications		
Characteristics	Terminals	Description
Input for voltage supply from the network		
Power supply voltage	L (Phase)	230V AC 50Hz
	N (Neutral)	
3 screw clamps with plug-in connector		
Inputs / Outputs		
Energy pulse meter input	E1	2 terminals with polarity (+,-) suitable for the connection of energy meters of the type 100p x KW/
Binary outputs	R1 (Relay1)	3 binary outputs with potential-free relay (NO contact). Maximum power for each output: 2.5 AX (230V AC) Each relay output has 2 terminals
	R2 (Relay2)	
	R3 (Relay3)	
BUS connection	BUS	Input voltage: 30V DC, +/- 1V SELV Absorption: from 1 to 10V DC Maximum load current: 50mA 2 terminals with polarity (+, -)
Screen / Audio		
Screen		Hitachi 5.7" CCFL Display LCD TFT Resolution: 320x240 pixel Touchscreen
Microphone		Sensitivity -40dB S/N 58dB
Loudspeaker		8W, 2W, 400-20,000Hz
Connection of optional and other modules		
Slot for MicroSD card		MicroSD memory card reader (integrated) Supported SD card capacity: 2GB (compatible SD card supplied in the package of the device)
Temperature		
Detectable ambient temperature		-5 ° C a +40 ° C

Mylos Home Automation - Coding

Order information



Coding criteria for Home and Building Automation devices

2	C	S	Y		1		0	0	
Fixed part of the code				System		Product function		Product color	
<div><div>E</div> Home Automation</div> <div><div>K</div> Building Automation KNX</div>				<div>0 Inputs and sensor units</div> <div>1 Actuator units</div> <div>2 Special actuators and time-programmed thermostat/thermostat</div> <div>3 Mylos Touch control unit</div> <div>7 Power supplies and accessories</div>		<div>C White</div> <div>S Black</div>			

Example: Shutter actuator, black

2	C	S	Y	E	1	1	0	4	S
---	---	---	---	---	---	---	---	---	---

Packaging

To enable automatic warehouse management using optical readers, the Mylos Home Automation and Mylos KNX devices are packaged individually in boxes that display the EAN bar codes and protect the contents adequately against dust and shocks. For a more detailed explanation of the installation methods, a specific instruction sheet is supplied.

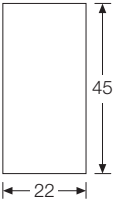
Mylos Home Automation

Overall dimensions

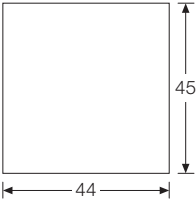
3

Code □	Code ■	Description	Modules	Depth mm
2CSYE1001C	2CSYE1001S	2 binary inputs module	2	32
2CSYE1002C	2CSYE1002S	2 binary inputs module, 1 rocker switch	2	32
2CSYE1003C	2CSYE1003S	2 binary inputs module, 2 rocker switches	2	32
2CSYE1011C	2CSYE1011S	2 binary inputs module, 1 module	1	32
2CSYE1012C	2CSYE1012S	Input module 1 rocker switch, 1 module	1	32
2CSYE1101C	2CSYE1101S	16A relay actuator	2	32
2CSYE1102C	2CSYE1102S	16A relay actuator, 1 rocker switch	2	32
2CSYE1103C	2CSYE1103S	16A relay actuator, 2 rocker switches	2	32
2CSYE1104C	2CSYE1104S	Shutter actuator	2	32
2CSYE1105C	2CSYE1105S	230V AC shutter actuator, 1 rocker switch	2	32
2CSYE1106C	2CSYE1106S	2X8A relay actuator, 2 rocker switches	2	32
2CSYE1107C	2CSYE1107S	8A relay actuator, 1 module	1	32
2CSYE1205C	2CSYE1205S	350W dimmer actuator, 1 rocker switch	2	32
2CSYE1206C	2CSYE1206S	1/10V DC dimmer actuator, 1 rocker switch	2	32
2CSYE1218C	2CSYE1218S	IR receiver for remote control	2	32
2CSYE1201C	2CSYE1201S	Time-programmable thermostat	2	32
2CSYE1202C	2CSYE1202S	Thermostat	2	32

1 module

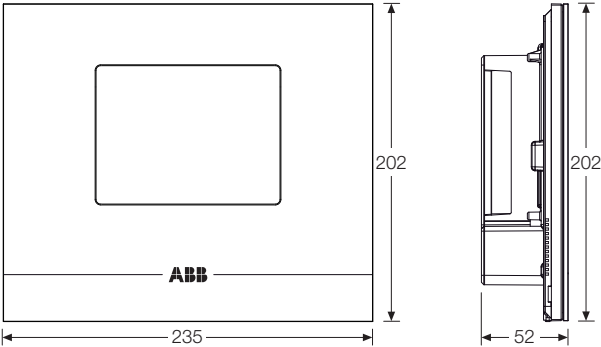


2 modules

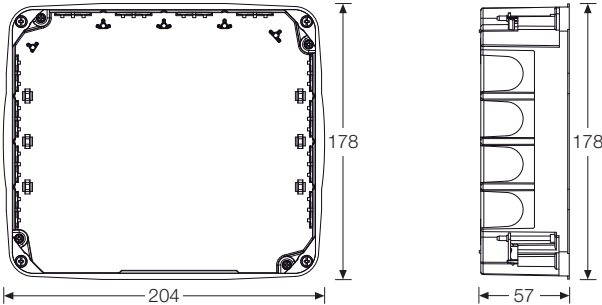


Mylos Touch

Mylos Touch

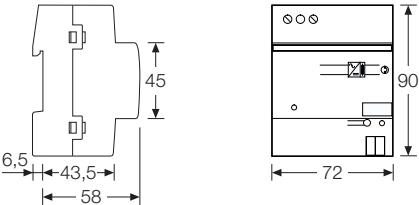


Flush-mounted box

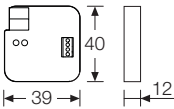


Other Mylos Home Automation devices

BUS power supply, 4 DIN modules



2 inputs module, flush-mounted



All measurements are in millimetres.

Mylos KNX

Building automation devices

3



600526FD901

2CSYK1001C



600527FD901

2CSYK1001S



600528FD901

2CSYK1002C



600529FD901

2CSYK1002S



600565FD901

2CSYK1012C



600566FD901

2CSYK1012S



600553FD901

2CSYK1003C



600541FD901

2CSYK1003S

Sensor units

Description	N° modules	Code	Box/Pack No. items
2 binary inputs unit, 1 module	2	2CSYK1001C	1/1
	2	2CSYK1001S	1/1
2 binary inputs 1 rocker switch unit	2	2CSYK1002C	1/1
	2	2CSYK1002S	1/1
Input module, 1 rocker switch, 1 module	NEW 1	2CSYK1012C	1/1
	1	2CSYK1012S	1/1
2 binary inputs 2 rocker switches unit	2	2CSYK1003C	1/1
	2	2CSYK1003S	1/1

Reference Standards IRV EN 50090.

 certified devices



600526F0901

2CSYK1101C
2CSYK1104C



600527F0901

2CSYK1101S
2CSYK1104S



600538F0901

2CSYK1102C



600539F0901

2CSYK1102S



600530F0901

2CSYK1103C
2CSYK1106C



600541F0901



600541F0901

2CSYK1103S
2CSYK1106S



600541F0901



600553F0901

2CSYK1105C



600554F0901

2CSYK1105S



600556F0901

2CSYK1205C
2CSYK1206C



600556F0901

2CSYK1205S
2CSYK1206S



600463F0901

2CSYK1218C



600464F0901

2CSYK1218S

Actuator units

Description	N° modules	Code	Box/Pack No. items
Relay actuator unit, 16A	2	2CSYK1101C	1/1
	2	2CSYK1101S	1/1
Relay actuator unit, 16A, 1 rocker switch	2	2CSYK1102C	1/1
	2	2CSYK1102S	1/1
Relay actuator unit, 16A, 2 rocker switches	2	2CSYK1103C	1/1
	2	2CSYK1103S	1/1
230V shutter actuator	2	2CSYK1104C	1/1
	2	2CSYK1104S	1/1
230V shutter actuator 1 rocker switch	2	2CSYK1105C	1/1
	2	2CSYK1105S	1/1
2 relay actuator, 2x8A, 2 rocker switches	2	2CSYK1106C	1/1
	2	2CSYK1106S	1/1

Reference Standards IRV EN 50090.

 certified devices

Lighting and comfort

Description	N° modules	Code	Box/Pack No. items
350W dimmer with rocker switch	2	2CSYK1205C	1/1
	2	2CSYK1205S	1/1
1/10v reg dimmer with rocker switch	2	2CSYE1206C	1/1
	2	2CSYE1206S	1/1
IR receiver for remote controls	2	2CSYE1218C	1/1
	2	2CSYE1218S	1/1

Reference Standards IRV EN 50090.

 certified devices

Mylos KNX

Building automation devices



2CSYK1201C

600562F0001



2CSYK1201S

600562F0001



2CSYK1202C

600562F0001



2CSYK1202S

2CSYK1202S

Heat regulation

Description	N° modules	Code	Box/Pack No. items
Time-programmable thermostat	2	2CSYK1201C	1/1
	2	2CSYK1201S	1/1
Thermostat	2	2CSYK1202C	1/1
	2	2CSYK1202S	1/1

Reference Standards IRV EN 50090.

 certified devices

Élos

Order codes and technical details

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Recognized beauty	4/5

Order codes

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Élos Smart control devices	4/9
Élos Soft key covers	4/12
Élos Smart key covers	4/13
Socket outlets	4/14
Protection devices	4/17
Signalling devices	4/18
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Quick selection table for Élos Soft frames	4/25
Quick selection table for Élos Smart frames	4/29
Élos Soft glass frames	4/30
Élos Soft metal frames	4/31
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Élos

Components and functions



Control devices

Switches, push switches, two-way switches, intermediate switches, relays and change-over switches in different versions to configure functions and control points for appliances in the most flexible manner, suitable for all residential and work contexts.

The range includes devices with light signalling to indicate the status of the connected appliances or for night-time location; items with a key allow their use to be prevented under specific conditions.

The torpedo lamps and bulb lamps with which illuminable switches can be equipped must be ordered separately; the codes are listed under the accessories.



Socket outlets

The versions with 2P+E 10-16A plugs for 250V lines are available in the Italian and German standards, with safety shutters and side/central earth. There are also power sockets available for the most widespread international standards.

The range also includes interlocked sockets, European and American standard shaver sockets, SELV sockets for very low safety voltage appliances and other special sockets. For telephone and data transmission applications, various types of connectors compatible with the most widespread and advanced international wiring standards are available.



Key covers

These are used to identify the available functions and the appliances connected with different symbols.

They are used for replacement of the keys with which the control devices are supplied as standard.

Available 1 and 1/2 module versions.



Protection devices

These devices intervene in the event of overloads, short circuits, overvoltages and other phenomena that involve a risk for the safety of persons and which compromise proper operation of connected appliances, performing their protection function directly downstream without impacting the power supply to the other points in the electrical installation. Among the devices in this range, the anti-interference filter is inserted on the supply side of appliances that are particularly sensitive to network electrical noise.



Signalling devices

Warning lights to display the operating status of connected appliances, as well as bells and buzzers (also available in a single device).

The steplight lamp is used as a courtesy light in order to illuminate pathways and transit zones, for example corridors, garages, basement rooms, and so on.

The torpedo lamps and bulb lamps with which warning lights need to be equipped must be ordered separately; the codes are listed under the accessories.



Safety and comfort devices

To optimize operation of the electrical appliances and to increase the liveability of the environments, the range includes programming, adjustment and timer devices, thermostats and electronic time-programmed thermostats, timers.

In the event of leaks of natural gas and LPG, the detectors automatically shut the solenoid valve to which they are connected in order to interrupt gas distribution and to prevent hazardous situations; the alarm can be relayed to multiple points with the signal repeater.

The anti-blackout light switches on in the event of a power cut with autonomy up to 4.5 hours. It can be removed from the socket and used as a torch.



All the products in the range that require the IMQ mark have obtained it, in compliance with the specific standards.

Élos

Components and functions



Accessories

Accessory articles and spare parts for the devices and components in the range are available.



Frames

The Élos Soft frames are available in glass with both satin-finish and glossy versions; the metal and technopolymer frames are available in glossy as well as pearlescent finishes. Metal frames are also supplied with special surface treatments: glossy chromium, brushed steel, natural zama. The Élos Smart frames are made from technopolymer, with pearlescent versions; they have a satin finish.



Components for installation

Blank covers for unused modules and 3, 4, 6, 8 and 12 module supports for the installation of appliances and components in rectangular flush-mounted boxes, single-pole frames with enclosure for rails.



Other installation solutions

Products and solutions for protected installation (IP55 airtight escutcheon plates and IP40/IP55 enclosures) are available, as well as adapters for installation in an Undernet floor turret.

Élos

A recognized beauty



4



Élos was selected among the best products in the Design category competing for the prestigious “Augusto Morello” Intel Design prize.

Élos - Order codes

Élos Soft switches

4



2CSE1001SF



2CSE1002SF



2CSE1004SF



2CSE1006SF



2CSE1007EL



2CSE1003SF



2CSE1008SF



2CSE1009EL



2CSE1010SF



2CSE1011SF

Switches

Description	No. modules	Code	Packing/ No. items
Single-pole switch, 16A - 250V~	1	2CSE1001SF	24/96
Double-pole switch, 16A - 250V~	1	2CSE1002SF	24/48
Single-pole switch, 16A - 250V~, illuminable	1	2CSE1004SF	24/48
Double-pole switch, 16A - 250V~, illuminable	1	2CSE1006SF	24/48
Double-pole switch, 10A - 250V~, with key	1	2CSE1007EL	1/12

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Two-way switches

Description	No. modules	Code	Packing/ No. items
Single-pole two-way switch, 16A - 250V~	1	2CSE1003SF	24/96
Single-pole two-way switch, 16A - 250V~, illuminable	1	2CSE1008SF	24/48
Single-pole two-way switch, 10A - 250V~, with key	1	2CSE1009EL	1/12

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Intermediate switches

Description	No. modules	Code	Packing/ No. items
Intermediate switch, 16A - 250V~	1	2CSE1010SF	24/48

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Switches

Description	No. modules	Code	Packing/ No. items
Change-over switch, 10A - 250V~, 3 positions, with central OFF	1	2CSE1011SF	24/48

Information on the illumination of switches from page 4/47
Technical details from page 4/48



600115F0901

2CSE1012EL
2CSE1013EL
2CSE1014EL

Relays

Description	No. modules	Code	Packing/ No. items
Latching relay, 1 pole. Output contact 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	2CSE1012EL	1/12
Latching relay, 2 poles. Output contacts 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	2CSE1013EL	1/12
Monostable relay, 1 pole. Output contact 10A (AC1)/4A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	2CSE1014EL	1/12

Technical details on page 4/50

4



600116F0901

2CSE1005SF



600117F0901

2CSE1015SF



600118F0901

2CSE1016SF



600119F0901

2CSE1017EL



600120F0901

2CSE1018SF



600121F0901

2CSE1019SF



600122F0901

2CSE1020EL



600123F0901

2CSE1021EL



600124F0901

2CSE1022SF



600125F0901

2CSE1023SF

Push switches

Description	No. modules	Code	Packing/ No. items
Single-pole push switch NO, 16A - 250V~	1	2CSE1005SF	24/96
Single-pole push switch NO, 16A - 250V~, lighttable	1	2CSE1015SF	12/24
Single-pole push switch NC, 16A - 250V~	1	2CSE1016SF	12/24
Double single-pole push switch, NO, 16A - 250V~	1	2CSE1017EL	12/24
Double single-pole push switch, NO, 10A - 250V~, with interlock	1	2CSE1018SF	12/24
Double-pole push switch NO, 16A - 250V~	1	2CSE1019SF	24/48
Double-pole push switch NO, 16A - 250V~, with cord pull, 150 cm	1	2CSE1020EL	4/32
Double-pole push switch, NO, 10A - 250V~, with key	1	2CSE1021EL	1/24
Single-pole push switch NO, 10A - 250V~, START, with auxiliary NC contact, 10A - 250V~	1	2CSE1022SF	12/24
Single-pole push switch NC, 10A - 250V~, STOP, with auxiliary NO contact, 10A - 250V~	1	2CSE1023SF	12/24

Information on the illumination of switches from page 4/47

Technical details from page 4/48

Élos - Order codes

Élos Soft switches

4



600128F0901

2CSE1024EL



600127F0901

2CSE1025EL



600128F0901

2CSE1026EL



600129F0901

2CSE1027SF



600130F0901

2CSE1028SF



600131F0901

2CSE1029SF



600132F0901

2CSE1030SF

Special push switches

Description	No. modules	Code	Packing/ No. items
Single-pole push switch NO, 16A - 250V~, with red diffuser	1	2CSE1024EL	12/24
Single-pole push switch NO, 16A - 250V~, with green diffuser	1	2CSE1025EL	12/24
Single-pole push switch NO, 10A - 250V~, with backlit label holder plate (with 12V or 24V lamps)	2	2CSE1026EL	12/36
Single-pole push switch NO, 16A - 250V~, illuminable, with DOOR OPENER symbol	1	2CSE1027SF	12/24
Single-pole push switch NO, 16A - 250V~, illuminable, with BELL symbol	1	2CSE1028SF	12/24
Single-pole push switch NO, 16A - 250V~, illuminable, with LAMP symbol	1	2CSE1029SF	12/24
Single-pole push switch NO, 16A - 250V~, illuminable, with STAIR LIGHT symbol	1	2CSE1030SF	12/24

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Élos - Order codes

Élos Smart switches



600577F0901

2CSE1001SM



600578F0901

2CSE1002SM



600579F0901

2CSE1004SM



600580F0901

2CSE1006SM



600109F0901

2CSE1007EL



600581F0901

2CSE1003SM



600582F0901

2CSE1008SM



600112F0901

2CSE1009EL



600583F0901

2CSE1010SM



600584F0901

2CSE1011SM

Switches

Description	No. modules	Code	Packing/ No. items
Single-pole switch, 16A - 250V~	1	2CSE1001SM	24/96
Double-pole switch, 16A - 250V~	1	2CSE1002SM	24/48
Single-pole switch, 16A - 250V~, illuminable	1	2CSE1004SM	24/48
Double-pole switch, 16A - 250V~, illuminable	1	2CSE1006SM	24/48
Double-pole switch, 10A - 250V~, with key	1	2CSE1007EL	1/12

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Two-way switches

Description	No. modules	Code	Packing/ No. items
Single-pole two-way switch, 16A - 250V~	1	2CSE1003SM	24/96
Single-pole two-way switch, 16A - 250V~, illuminable	1	2CSE1008SM	24/48
Single-pole two-way switch, 10A - 250V~, with key	1	2CSE1009EL	1/12

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Intermediate switches

Description	No. modules	Code	Packing/ No. items
Intermediate switch, 16A - 250V~	1	2CSE1010SM	24/48

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Switches

Description	No. modules	Code	Packing/ No. items
Change-over switch, 10A - 250V~, 3 positions, with central OFF	1	2CSE1011SM	24/48

Information on the illumination of switches from page 4/47
Technical details from page 4/48

Élos - Order codes

Élos Smart switches

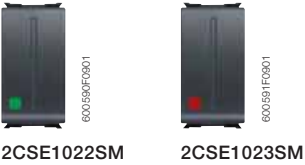
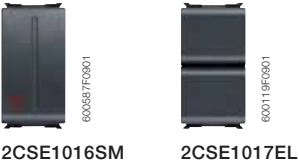


Relays

Description	No. modules	Code	Packing/ No. items
Latching relay, 1 pole. Output contact 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	2CSE1012EL	1/12
Latching relay, 2 poles. Output contacts 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	2CSE1013EL	1/12
Monostable relay, 1 pole. Output contact 10A (AC1)/4A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	2CSE1014EL	1/12

Technical details on page 4/50

4



Push switches

Description	No. modules	Code	Packing/ No. items
Single-pole push switch NO, 16A - 250V~	1	2CSE1005SM	24/96
Single-pole push switch NO, 16A - 250V~, illuminable	1	2CSE1015SM	12/24
Single-pole push switch NC, 16A - 250V~	1	2CSE1016SM	12/24
Double single-pole push switch, NO, 16A - 250V~	1	2CSE1017EL	12/24
Double single-pole push switch, NO, 10A - 250V~, with interlock	1	2CSE1018SM	12/24
Double-pole push switch NO, 16A - 250V~	1	2CSE1019SM	24/48
Double-pole push switch NO, 16A - 250V~, with cord pull, 150 cm cord with ball grip	1	2CSE1020EL	4/32
Double-pole push switch, NO, 10A - 250V~, with key	1	2CSE1021EL	1/24
Single-pole push switch NO, 10A - 250V~, START, with auxiliary NC contact, 10A - 250V~	1	2CSE1022SM	12/24
Single-pole push switch NC, 10A - 250V~, STOP, with auxiliary NO contact, 10A - 250V~	1	2CSE1023SM	12/24

Information on the illumination of switches from page 4/47
Technical details from page 4/48



600125FC001

2CSE1024EL



600127FC001

2CSE1025EL



600128FC001

2CSE1026EL



600592F0901

2CSE1027SM



600593F0901

2CSE1028SM



600594F0901

2CSE1029SM



600595F0901

2CSE1030SM

Special switches

Description	No. modules	Code	Packing/ No. items
Single-pole push switches NO, 16A - 250V~, with red diffuser	1	2CSE1024EL	12/24
Single-pole push switches NO, 16A - 250V~, with green diffuser	1	2CSE1025EL	12/24
Single-pole push switches NO, 10A - 250V~, with backlit label holder plate (with 12V or 24V lamps)	2	2CSE1026EL	12/36
Single-pole push switches NO, 16A - 250V~, illuminable, with DOOR OPENER symbol	1	2CSE1027SM	12/24
Single-pole push switches NO, 16A - 250V~, illuminable, with BELL symbol	1	2CSE1028SM	12/24
Single-pole push switches NO, 16A - 250V~, illuminable, with LAMP symbol	1	2CSE1029SM	12/24
Single-pole push switches NO, 16A - 250V~, illuminable, with STAIR LIGHT symbol	1	2CSE1030SM	12/24

Information on the illumination of switches from page 4/47

Technical details from page 4/48

Élos - Order codes

Élos Soft key covers

4



600133F0901

2CSE1501SF



600135F0901

2CSE1502EL



600137F0901

2CSE1504SF



600139F0901

2CSE1506SF



600141F0901

2CSE1508SF



600134F0901

2CSE1522SF



600136F0901

2CSE1503SF



600138F0901

2CSE1505SF



600140F0901

2CSE1507SF



600142F0901

2CSE1509SF



600143F0901

2CSE1511EL



600145F0901

2CSE1513EL



600147F0901

2CSE1515EL



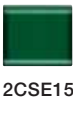
600149F0901

2CSE1517EL



600144F0901

2CSE1512EL



600146F0901

2CSE1514EL



600148F0901

2CSE1516EL



600150F0901

2CSE1518EL



600151F0901

2CSE1519EL



600152F0901

2CSE1520EL



600153F0901

2CSE1521EL

Key cover 1 module

Description	No. modules	Code	Packing/ No. items
Key cover 1 module, generic	1	2CSE1501SF	4/48
1-module key cover, for devices with functional indication	1	2CSE1522SF	4/48
1-module key cover, generic with labe	1	2CSE1502EL	4/48
1-module key cover, with NURSE symbol and transparent diffuser	1	2CSE1503SF	4/48
1-module key cover, with TABLE LAMP symbol and transparent diffuser	1	2CSE1504SF	4/48
1-module key cover, with DIMMER symbol and transparent diffuser	1	2CSE1505SF	4/48
1-module key cover, with FAN symbol and transparent diffuser	1	2CSE1506SF	4/48
1-module key cover, with TELEPHONE symbol and transparent diffuser	1	2CSE1507SF	4/48
1-module key cover, with DOOR/GATE OPENING symbol and transparent diffuser	1	2CSE1508SF	4/48
1-module key cover, with DOOR/GATE CLOSING symbol and transparent diffuser	1	2CSE1509SF	4/48

Technical details on page 4/51

½ module key covers

Description	No. modules	Code	Packing/ No. items
½ module key cover, generic	1/2	2CSE1511EL	4/48
½ module key cover, generic with label	1/2	2CSE1512EL	4/48
½ module key cover, with red diffuser	1/2	2CSE1513EL	4/48
½ module key cover, with green diffuser	1/2	2CSE1514EL	4/48
½ module key cover, with amber diffuser	1/2	2CSE1515EL	4/48
½ module key cover, with transparent diffuser	1/2	2CSE1516EL	4/48
½ module key cover, with blue diffuser	1/2	2CSE1517EL	4/48
½ module key cover, with VERTICAL ARROW symbol	1/2	2CSE1518EL	4/48
½ module key cover, with HORIZONTAL ARROW symbol	1/2	2CSE1519EL	4/48
½ module key cover, with DOOR/GATE OPENING symbol	1/2	2CSE1520EL	4/48
½ module key cover, with DOOR/GATE CLOSING symbol	1/2	2CSE1521EL	4/48

Technical details on page 4/51

Élos - Order codes

Élos Smart key covers



600596F0901

2CSE1501SM



600597F0901

2CSE1522SM



600135F0901

2CSE1502EL



600598F0901

2CSE1503SM



600599F0901

2CSE1504SM



600600F0901

2CSE1505SM



600601F0901

2CSE1506SM



600602F0901

2CSE1507SM



600603F0901

2CSE1508SM



600604F0901

2CSE1509SM



600143F0901

2CSE1511EL



600144F0901

2CSE1512EL



600145F0901

2CSE1513EL



600146F0901

2CSE1514EL



600147F0901

2CSE1515EL



600148F0901

2CSE1516EL



600149F0901

2CSE1517EL



600150F0901

2CSE1518EL



600151F0901

2CSE1519EL



600152F0901

2CSE1520EL



600153F0901

2CSE1521EL

Copritasti 1 modulo

Description	No. modules	Code	Packing/ No. items
Key cover 1 module, generic	1	2CSE1501SM	4/48
1-module key cover, for devices with functional indication	1	2CSE1522SM	4/48
1-module key cover, generic with label	1	2CSE1502EL	4/48
1-module key cover, with NURSE symbol and transparent diffuser	1	2CSE1503SM	4/48
1-module key cover, with TABLE LAMP symbol and transparent diffuser	1	2CSE1504SM	4/48
1-module key cover, with DIMMER symbol and transparent diffuser	1	2CSE1505SM	4/48
1-module key cover, with FAN symbol and transparent diffuser	1	2CSE1506SM	4/48
1-module key cover, with TELEPHONE symbol and transparent diffuser	1	2CSE1507SM	4/48
1-module key cover, with DOOR/GATE OPENING symbol and transparent diffuser	1	2CSE1508SM	4/48
1-module key cover, with DOOR/GATE CLOSING symbol and transparent diffuser	1	2CSE1509SM	4/48

Technical details on page 4/51

½ module key covers

Description	No. modules	Code	Packing/ No. items
½ module key cover, generic	1/2	2CSE1511EL	4/48
½ module key cover, generic with label	1/2	2CSE1512EL	4/48
½ module key cover, with red diffuser	1/2	2CSE1513EL	4/48
½ module key cover, with green diffuser	1/2	2CSE1514EL	4/48
½ module key cover, with amber diffuser	1/2	2CSE1515EL	4/48
½ module key cover, with transparent diffuser	1/2	2CSE1516EL	4/48
½ module key cover, with blue diffuser	1/2	2CSE1517EL	4/48
½ module key cover, with VERTICAL ARROW symbol	1/2	2CSE1518EL	4/48
½ module key cover, with HORIZONTAL ARROW symbol	1/2	2CSE1519EL	4/48
½ module key cover, with DOOR/GATE OPENING symbol	1/2	2CSE1520EL	4/48
½ module key cover, with DOOR/GATE CLOSING symbol	1/2	2CSE1521EL	4/48

Technical details on page 4/51

Élos - Order codes

Socket outlets

4



2CSE1101EL



2CSE1102EL



2CSE1103EL



2CSE1104EL



2CSE1105EL



2CSE1106EL



2CSE1107EL



2CSE1108EL



2CSE1109EL



2CSE1110EL



2CSE1111EL



2CSE1112EL

Plug sockets, Italian standard with safety shutters

Description	No. modules	Code	Packing/ No. items
2P+E socket outlet, 10A - 250V~, P11 type	1	2CSE1101EL	24/96
2P+E socket outlet, 16A - 250V~, P17 type	1	2CSE1102EL	24/96
2P+E socket outlet, 16A - 250V~, P17/11 type	1	2CSE1103EL	24/96
2P+E socket outlets, 16A - 250V~, P17/11 type, coloured for privileged circuits	1	2CSE1104EL	24/48
	1	2CSE1105EL	24/48
	1	2CSE1106EL	24/48
2P+E double socket, 16A - 250V~, P17/11 type	2	2CSE1107EL	24/48

Technical details from page 4/51

Plug sockets, Italian/German standard with safety shutters and side/central earth

Description	No. modules	Code	Packing/ No. items
2P+E socket outlet, 16A - 250V~, P30 type	2	2CSE1108EL	12/48
2P+E socket outlet, 16A - 250V~, P30/17 type	2	2CSE1109EL	12/48
2P+E socket outlets, 16A - 250V~, P30/17 type, coloured for privileged circuits	2	2CSE1110EL	12/24
	2	2CSE1111EL	12/24
	2	2CSE1112EL	12/24
	2	2CSE1112EL	12/24

Technical details from page 4/52



2CSE1324EL



2CSE1325EL



2CSE1326EL



2CSE1113EL



2CSE1114EL



2CSE1115EL



2CSE1116EL



2CSE1144EL



2CSE1136EL



2CSE1134EL



2CSE1145EL



2CSE1141EL



2CSE1148EL

Interlocked socket outlets with automatic MCB and automatic RCD

Description	No. modules	Code	Packing/ No. items
2P+E socket outlet, 16A - 250V~, interlocked with MCB, P17/11	2	2CSE1324EL	1/6
2P+E socket outlet, 16A - 250V~, interlocked with MCB, P30	3	2CSE1325EL	1/4
2P+E socket outlet, 16A - 250V~, with RCD, 10mA, P17/11	3	2CSE1326EL	1/4

Technical details from page 4/53

Special sockets

Description	No. modules	Code	Packing/ No. items
2P shaver socket with insulating transformer. Power supply 230V~ - 50/60Hz. Output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket P11 type)	3	2CSE1113EL	2/4
2P socket, 6A - 24V (SELV)	1	2CSE1114EL	12/24
Polarized 2P socket, 6A - 24V (SELV)	1	2CSE1115EL	12/24
Signal socket for sound circuits, five-pole DIN 41524	1	2CSE1116EL	12/24

Technical details from page 4/55

Plug sockets, foreign standard with safety shutters

Description	No. modules	Code	Packing/ No. items
2P+E socket outlet, 16A - 250V~, French Standard	2	2CSE1144EL	24/48
2P+E socket outlet, 10A - 250V~/15A - 125V~, EuroAmerican Standard	1	2CSE1136EL	24/48
2P+E socket outlet, 13A - 250V~, British Standard	2	2CSE1134EL	24/48
2P+E socket outlet, 15A - 125V~, American Standard	1	2CSE1145EL	24/48
2P+E socket outlet, 10A - 250V~, Australian / South American Standard	2	2CSE1141EL	24/48
2P+E socket outlet, 10A - 250V~, Swiss Standard	1	2CSE1148EL	24/48

Technical details from page 4/52

Élos - Order codes

Socket outlets



2CSE1137EL
2CSE1138EL



2CSE1139EL
2CSE1140EL



2CSE1147EL



2CSE1121EL
2CSE1122EL



2CSE1123EL



2CSE1124EL



2CSE1125EL



2CSE1126EL



2CSE1135EL



2CSE1143EL
2CSE1146EL



2CSE1128EL



2CSE1129EL



2CSE1130EL



2CSE1131EL



2CSE1132EL



2CSE1133EL

TV/SAT sockets

Description	No. modules	Code	Packing/ No. items
TV/SAT coaxial socket, direct, male IEC connector, ø 9.5 mm	1	2CSE1137EL	24/48
TV/SAT coaxial socket, feedthrough, male IEC connector, ø 9.5 mm, attenuation 5 dB	1	2CSE1138EL	1/24
TV/SAT coaxial socket, direct, female connector	1	2CSE1139EL	24/48
TV/SAT coaxial socket, feedthrough, female connector, attenuation 5 dB	1	2CSE1140EL	1/24
TV coaxial socket/SAT, feedthrough, male IEC connector ø 9.5 mm and female connector	1	2CSE1147EL	1/12

Technical details from page 4/56

Network and telephone sockets

Description	No. modules	Code	Packing/ No. items
RJ11 telephone connector	1	2CSE1121EL	1/24
RJ12 telephone connector	1	2CSE1122EL	1/12
RJ11 double telephone connector	1	2CSE1123EL	1/12
RJ45 data connector, Cat. 5e, UTP	1	2CSE1124EL	1/24
RJ45 data connector, Cat. 5e, FTP	1	2CSE1125EL	1/24
RJ45 data connector, Cat. 3, UTP	1	2CSE1126EL	1/24
RJ45 socket, Cat. 6, UTP	1	2CSE1143EL	1/24
RJ45 socket, Cat. 6, FTP	1	2CSE1146EL	1/24
Adapter for RJ45 connector, Keystone type	1	2CSE1135EL	1/96

Technical details from page 4/58

Data connectors

Description	No. modules	Code	Packing/ No. items
BNC connector, 75/93 ohm, for crimping cable RG59/62	1	2CSE1128EL	1/12
Connector for data transmission, IBM Cabling System type, with perforated insulation for IBM1/2/6 cables	2	2CSE1129EL	1/12
TWINAX connector, for soldering a 100 ohm biaxial cable	2	2CSE1130EL	1/12
9-pole connector, SUB D, to be soldered	2	2CSE1131EL	1/12
15-pole connector, SUB D, to be soldered	2	2CSE1132EL	1/12
25-pole connector, SUB D, to be soldered	2	2CSE1133EL	1/12

Élos - Order codes

Protection devices



600195FC901

2CSE1301EL



600195FC901

2CSE1302EL



600197FC901

2CSE1303EL



600198FC901

2CSE1304EL



600198FC901

2CSE1305EL



600200FC901

2CSE1306EL



600201FC901

2CSE1307EL

2CSE1328EL



600202FC901

2CSE1308EL

2CSE1329EL



600203FC901

2CSE1309EL

2CSE1330EL

Fuse holders, overvoltage limiters, filters

Description	No. modules	Code	Packing/ No. items
Fuse holder, for fuses ø 6.3x32 mm, 16A - 250V~	1	2CSE1301EL	24/48
Overvoltage limiter with tripping signal, 75J, 250V~	1	2CSE1302EL	1/12
Anti-interference filter, 3.5A - 250V~, attenuation at 1MHz equal to 55 dB	1	2CSE1303EL	1/12

Technical details from page 4/61

Miniature circuit-breakers and Residual current circuit-breakers

Description	No. modules	Code	Packing/ No. items
Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	1	2CSE1304EL	1/12
Automatic MCB, 1P+N, C10, breaking capacity 3kA	1	2CSE1305EL	1/12
Automatic MCB, 1P+N, C16, breaking capacity 3kA	1	2CSE1306EL	1/12
Automatic RCD, 1P+N, C6 - 10mA, breaking capacity 1.5kA	2	2CSE1307EL	1/6
Automatic RCD, 1P+N, C10 - 10mA, breaking capacity 3kA	2	2CSE1308EL	1/6
Automatic RCD, 1P+N, C16 - 10mA, breaking capacity 3kA	2	2CSE1309EL	1/6
Automatic RCD, 1P+N, C6 - 30mA, breaking capacity 1.5kA	2	2CSE1328EL	1/6
Automatic RCD, 1P+N, C10 - 30mA, breaking capacity 3kA	2	2CSE1329EL	1/6
Automatic RCD, 1P+N, C16 - 30mA, breaking capacity 3kA	2	2CSE1330EL	1/6

Technical details from page 4/63

Élos - Order codes

Signalling devices

4



600204F0901

2CSE1310EL



600205F0901

2CSE1311EL



600206F0901

2CSE1312EL



600207F0901

2CSE1313EL



600208F0901

2CSE1314EL



600209F0901

2CSE1315EL



600210F0901

2CSE1316EL



600211F0901

2CSE1317EL
2CSE1318EL



600212F0901

2CSE1319EL
2CSE1320EL



600213F0901

2CSE1321EL
2CSE1322EL

Warning lights

Description	No. modules	Code	Packing/ No. items
Warning lights, 12/24/250V~, with connector for torpedo lamps, amber	1	2CSE1310EL	24/48
Warning lights, 12/24/250V~, with connector for torpedo lamps, transparent	1	2CSE1311EL	24/48
Warning lights, 12/24/250V~, with connector for torpedo lamps, red	1	2CSE1312EL	24/48
Warning lights, 12/24/250V~, with connector for torpedo lamps, green	1	2CSE1313EL	24/48
Warning lights, 12/24/250V~, with connector for torpedo lamps, blue	1	2CSE1314EL	24/48
Double warning light, red and green, 12/24/250V~, with connector for bulb lamps	1	2CSE1315EL	24/48
Opal steplight lamp with adjustable light beam, 12/24V, with connector for bulb lamps	3	2CSE1316EL	8/16

Technical details from page 4/66

Bells and buzzers

Description	No. modules	Code	Packing/ No. items
Bell, 12V, 50Hz, 8VA, sound intensity 80 dB/1 m	1	2CSE1317EL	12/24
Bell, 230V, 50Hz, 8VA, sound intensity 80 dB/1 m	1	2CSE1318EL	12/24
Bell/buzzer, 12V - 50/60Hz, PHASE OUT	2	2CSE1319EL	1/6
buzzer sound intensity 75 dB/1 m, bell 70 dB/1 m			
Bell/buzzer, 230V - 50/60Hz, PHASE OUT	2	2CSE1320EL	1/6
buzzer sound intensity 75 dB/1 m, bell 70 dB/1 m			
Buzzer, 12V - 50Hz, 8VA, sound intensity 70 dB/1 m	1	2CSE1321EL	12/24
Buzzer, 230V - 50Hz, 8VA, sound intensity 70 dB/1 m	1	2CSE1322EL	12/24

Technical details from page 4/67

Élos - Order codes

Safety and comfort devices



600214F0901

2CSE1219EL



600215F0901

2CSE1202EL



600216F0901

2CSE1223EL



600217F0901

2CSE1204EL



600218F0901

2CSE1205EL



600219F0901

2CSE1206EL
2CSE1209EL



600220F0901

2CSE1207EL



600221F0901

2CSE1208EL

Thermostats and time-programmed thermostats

Description	No. modules	Code	Packing/ No. items
Summer/winter electronic time-programmed thermostat, with daily and weekly programming and 3 temperature levels that can be set.	2	2CSE1219EL	1/2
Potential-free relay output contact 1 NO/NC, 5A (AC1)/2A (AC15) - 250V~			
Summer/winter electronic thermostat, with input for night-time reduction remote control and 3 temperature levels that can be set.	3	2CSE1202EL	2/4
Output contact NO, 5A (AC1)/2A (AC15) - 250V~			

Technical details from page 4/68

Programm器和 timers

Description	No. modules	Code	Packing/ No. items
Daily/weekly electronic programmer, 1 channel, overall dimensions 2 Élos modules, 1 NO/NC changeover output contact, 8A (AC1)/4A (AC15) 230V~ - 50/60 Hz	2	2CSE1223EL	1/12
Electronic timed button with input for remote control, 1 output contact NO, 10A (AC1)/5A (AC15) - 250V~	2	2CSE1204EL	2/4

Technical details from page 4/71

Dimmers

Description	No. modules	Code	Packing/ No. items
Electronic dimmer with rotary control for resistive loads, 100-500W, 230V~ - 50/60Hz	1	2CSE1205EL	1/12
Electronic dimmer with pushbutton control for resistive and inductive loads, 60-500W (60-500VA), 230V~ - 50/60Hz	2	2CSE1206EL	1/6
Electronic dimmer with rotary control and with two-way switch for resistive and inductive loads, 40-300W (40-300VA), 230V~ - 50/60Hz	1	2CSE1207EL	1/12
Electronic dimmer with pushbutton control for resistive-inductive loads and electronic power supplies for very low voltage halogen lamps, 25-180W (25-180VA), 230V~ - 50/60Hz	1	2CSE1208EL	1/12
Electronic dimmer with pushbutton control for resistive-inductive loads and electronic power supplies for very low voltage halogen lamps, 25-300W (25-250VA), 230V~ - 50/60Hz	2	2CSE1209EL	1/6

Technical details from page 4/74

Élos - Order codes

Safety and comfort devices

4



2CSE1220EL



2CSE1222EL



2CSE1211EL



2CSE1212EL



2CSE1213EL



2CSE1214EL



2CSE1224EL



2CSE1215EL



2CSE1216EL



2CSE1217EL



2CSE1218EL



2CSE1426EL

Gas detectors

Description	No. modules	Code	Packing/ No. items
Natural gas presence electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact 10A (AC1)/5A (AC15) - 250V~. 12V~ power supply with code 2CSE1222EL	2	2CSE1220EL	1/1
230V~ - 50-60Hz power supply, output 12V~	1	2CSE1222EL	1/1
LPG gas presence electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact 10A (AC1)/5A (AC15) - 250V~.	3	2CSE1211EL	1/2
Power supply 230V~ - 50Hz	-	2CSE1212EL	1/2
Acoustic and luminous signal repeater with silencer pushbutton, 230V~ - 50/60Hz	2	2CSE1212EL	1/2
Solenoid valve for gas systems with manual reset, normally open, 230V~ - 50Hz	-	2CSE1213EL	1/2

Technical details from page 4/79

Emergency lighting

Description	No. modules	Code	Packing/ No. items
Removable anti-blackout light. Charge reserve equal to 4.5 h and recharge time equal to 10-20 h. To be combined with 230V~ plug sockets; particularly recommended for codes 2CSE1108EL and 2CSE1109EL.	-	2CSE1214EL	1/6
Flush-mounted anti-blackout light, dimension 2 Élos modules, suitable for fixed or removable use. Power supply voltage 230V - 50/60 Hz. Duration without mains supply 2h, recharge time 5h	2	2CSE1224EL	1/12

Technical details from page 4/84

Other devices

Description	No. modules	Code	Packing/ No. items
Digital clock/calendar with display of hour-minutes/day-month, 230V~ - 50Hz	1	2CSE1215EL	1/6
IR motion detector with twilight threshold for control and adjustment of the operation time of lighting devices.	1	2CSE1216EL	1/6
Relay output NO 5A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50/60Hz.	-	2CSE1217EL	1/2
Portable remote control, 6 channels/3 bands, range 15 m	1	2CSE1218EL	1/6
IR receiver, 1 channel, 1 pushbutton Relay output NO 5A (AC1)/2A (AC15) - 250V~.	1	2CSE1218EL	1/6
Power supply 230V~ - 50/60Hz.	3	2CSE1426EL	1/2
Universal badge circuit-breaker with location light, 250V~	-	2CSE1426EL	1/2

Technical details from page 4/86

Élos - Order codes

Accessories



2CSE1608EL
2CSE1609EL



2CSE1610EL



2CSE1611EL
2CSE1612EL



2CSE1613EL
2CSE1614EL
2CSE1615EL
2CSE1616EL



2CSE1632EL
2CSE1633EL
2CSE1641EL



2CSE1619EL
2CSE1620EL
2CSE1621EL
2CSE1622EL
2CSE1623EL
2CSE1624EL

Wiring

Description	Dimensions mm	Code	Packing/ No. items
Shielding cables for connecting external audio sources in a MONO system	-	2CSE1608EL	1/12
Shielding cables for connecting external audio sources in a STEREO system	-	2CSE1609EL	1/12

Resistor for TV sockets

Description	Dimensions mm	Code	Packing/ No. items
Closing terminal resistor, 75ohm	-	2CSE1610EL	50/200

Keys

Description	Dimensions mm	Code	Packing/ No. items
Set of two spare keys for switches/two-way switches	-	2CSE1611EL	1/100
Set of two spare keys for pushbuttons	-	2CSE1612EL	1/100

Bulb lamps

Description	Dimensions mm	Code	Packing/ No. items
White filament lamp, 12V, 0.4W	-	2CSE1613EL	50
White filament lamp, 24V, 0.8W	-	2CSE1614EL	50
Red fluorescent lamp, 230V, 0.4W	-	2CSE1615EL	50
Green fluorescent lamp, 230V, 0.8W	-	2CSE1616EL	50
Blue LED lamp, 230V/110V, 1W, with cables	-	2CSE1632EL	50
White LED lamp, 230V/110V, 1W, with cables	-	2CSE1633EL	50
Blue LED lamp, 9V, 0.4W, with cables	-	2CSE1641EL	50

Information on the illumination of switches on page 4/47

Torpedo lamp

Description	Dimensions mm	Code	Packing/ No. items
White filament lamp, 12V, 2W dimension S6x36 mm	ø 6x36	2CSE1619EL	50
White filament lamp, 12V, 2W dimension S6x31 mm	ø 6x31	2CSE1621EL	50
Red fluorescent lamp, 110/230V, 0.4W dimension S6.3x28 mm	ø 6,3x28	2CSE1623EL	50
White filament lamp, 24V, 2W dimension S6x36 mm	ø 6x36	2CSE1620EL	50
White filament lamp, 24V, 2W dimension S6x31 mm	ø 6x31	2CSE1622EL	50
Green fluorescent lamp, 110/230V, 0.4W dimension S6.3x28 mm	ø 6,3x28	2CSE1624EL	50

Information on the illumination of switches on page 4/47

Élos - Order codes

Accessories



600248F0901

- 2CSE1625EL
- 2CSE1626EL
- 2CSE1627EL
- 2CSE1628EL
- 2CSE1629EL
- 2CSE1630EL

Fuses, 250V~

Description	Dimensions mm	Code	Packing/ No. items
Fuse for dimmer, 2.5A, 5x20 mm	ø 5x20	2CSE1625EL	20/200
Fuse for fuse holders, 4A, 6.3x32 mm	ø 6,3x32	2CSE1627EL	10/200
Fuse for fuse holders, 10A, 6.3x32 mm	ø 6,3x32	2CSE1629EL	10/200
Fuse for fuse holders, 2A, 6.3x32 mm	ø 6,3x32	2CSE1626EL	10/200
Fuse for fuse holders, 6A, 6.3x32 mm	ø 6,3x32	2CSE1628EL	10/200
Fuse for fuse holders, 16A, 6.3x32 mm	ø 6,3x32	2CSE1630EL	10/200

Élos - Order codes

Components for installation



2CSE1601EL



2CSE1602EL

Blank covers

Description	No. modules	Code	Packing/ No. items
Blank cover, 1 module	1	2CSE1601EL	24/96
Blank cover, 1 module with hole for cable outlet ø 4mm and ø 8 mm	1	2CSE1602EL	24/48



2CSE3101EL



2CSE3102EL

Enclosures, 1 module

Description	No. modules	Code	Packing/ No. items
White frame with enclosure for rails, 1 module	1	2CSE3101EL	1/6
Anthracite frame with enclosure for rails, 1 module	1	2CSE3102EL	1/6

4



2CSE1603EL



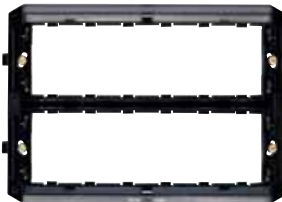
2CSE1604EL



2CSE1605EL



2CSE1606EL



2CSE1607EL

Supports

Description	No. modules	Code	Packing/ No. items
Support, 3 modules for rectangular box (center distance 3.29 in)	3	2CSE1603EL	10/150
Support, 4 modules for rectangular box (center distance 4.27 in)	4	2CSE1604EL	10/100
Support, 6 modules for rectangular box (center distance 100 mm)	6	2CSE1605EL	10/100
Support, 8 modules for rectangular box (center distance 4.27 in) (Only for Élos Smart frames)	4+4	2CSE1606EL	5/50
Support, 12 modules for rectangular box (center distance 163.5 mm) (Only for Élos Smart frames)	6+6	2CSE1607EL	5/50

Installation solutions from page 4/41

Élos - Order codes

Other installation solutions

4



2CSE2240EL 2CSE2340EL



2CSE2440EL



2CSE2840EL



2CSE2255EL 2CSE2355EL



2CSE2455EL



2CSE4355EL



Undernet towers



Lusy table tower

IP40 wall-mounted enclosures

Description	No. modules	Code	Packing/ No. items
2-space enclosure, IP40	2	2CSE2240EL	10/40
3-space enclosure, IP40	3	2CSE2340EL	10/30
4-space enclosure, IP40	4	2CSE2440EL	10/20
8-space enclosure, IP40	8	2CSE2840EL	5/10

Installation solutions from page 4/41 - Technical details on page 4/88

IP55 wall-mounted enclosures

Description	No. modules	Code	Packing/ No. items
2-space enclosure, IP55	2	2CSE2255EL	10/40
3-space enclosure, IP55	3	2CSE2355EL	10/30
4-space enclosure, IP55	4	2CSE2455EL	10/20
8-space enclosure, IP55	8	2CSE2855EL	5/10

Installation solutions from page 4/41 - Technical details on page 4/88

IP55 flush-mounted escutcheon plates

Description	No. modules	Code	Packing/ No. items
IP 55 frame, 3 modules, white	3	2CSE4355EL	1/40
IP 55 frame, 3 modules, anthracite	3	2CSE3355EL	1/40

Undernet towers and adapters

Description	No. modules	Code	Packing/ No. items
Undernet tower, 16 contact blocks with hollow cover - 300x310	-	10900	1/1
Undernet tower, 16 contact blocks with stainless steel cover - 300x310	-	10901	1/1
Élos 4 contact blocks support for Undernet tower 10900-10901	4	10917	1/12
Undernet tower, 10 contact blocks with hollow cover - 300x235	-	10902	1/1
Undernet tower, 10 contact blocks with stainless steel cover - 300x235	-	10903	1/1
Élos 5 contact blocks support for Undernet tower 10902-10903	5	10916	1/12

Lusy table tower

Description	No. modules	Code	Packing/ No. items
For mounting-frames and 4-module frames PHASE OUT	4	10 507	1/8

Installation solutions from page 4/41

Élos - Order codes

Quick selection table for Élos Soft frames

Glass frames



Turquoise blue satin finish
page 4/30



Topaz orange satin finish
page 4/30



Emerald green satin finish
page 4/30



Zircon yellow
page 4/30



Pearl white satin finish
page 4/30



Quartz white
page 4/30

Metal frames with special surface treatments



Glossy chromium
page 4/31



Brushed steel
page 4/31



Natural zama
page 4/31



Glossy gold
page 4/31

Élos - Order codes

Quick selection table for Élos Soft frames

Pearlescent metal frames with glossy finish



Silver grey
page 4/31



Light silver grey
page 4/31



Volcano grey
page 4/31



Slate grey
page 4/31



Titanium grey
page 4/32



Dune yellow ⁽¹⁾
page 4/32



Sahara yellow ⁽¹⁾
page 4/32



Havana brown
page 4/32



Copper red ⁽¹⁾
page 4/32



Clay red ⁽¹⁾
page 4/32



Atlantic blue ⁽¹⁾
page 4/32



Mediterranean blue ⁽¹⁾
page 4/33



Fjord blue ⁽¹⁾
page 4/33



Lake green ⁽¹⁾
page 4/33



Forest green ⁽¹⁾
page 4/33

⁽¹⁾ Finishes with low stock levels: contact an ABB sales executive for information on the availability of the products.

Metal frames with glossy finish



Anthracite grey
page 4/33



Antarctic white
page 4/33



ABB red ⁽¹⁾
page 4/33

⁽¹⁾ Finishes with low stock levels: contact an ABB sales executive for information on the availability of the products.

Élos - Order codes

Quick selection table for Élos Soft frames

Pearlescent technopolymer frames with glossy finish



Silver grey
page 4/34



Light silver grey
page 4/34



Volcano grey
page 4/34



Slate grey
page 4/34



Dune yellow
page 4/34



Sahara yellow
page 4/34



Havana brown
page 4/34



Copper red
page 4/34



Clay red
page 4/35



Arizona red
page 4/35



Atlantic blue
page 4/ 35



Mediterranean blue
page 4/35



Lake green
page 4/35



Forest green
page 4/35

Technopolymer frames with glossy finish



Anthracite grey
page 4/36



Antarctic white
page 4/36



ABB red
page 4/36

Élos - Order codes

Quick selection table for Élos Smart frames

Pearlescent technopolymer frames with satin finish



Silver grey
page 4/37



Light silver grey
page 4/37



Volcano grey
page 4/37



Slate grey
page 4/37



Titanium grey
page 4/37



Sahara yellow
page 4/37



Havana brown
page 4/37



Copper red
page 4/37



Arizona red
page 4/38



Atlantic blue
page 4/38



Mediterranean blue
pag. 4/38



Lake green
page 4/38



Forest green
page 4/38



Anthracite grey
page 4/39



Stone grey
page 4/39



Antarctic white
page 4/39



ABB red
page 4/39

Élos - Order codes

Élos Soft glass frames



Turquoise blue satin-finish colour



Topaz orange satin-finish colour



Emerald green satin finish colour



Zircon yellow colour



Pearl white satin finish colour



Quartz white colour

Glass frames

Colour	No. modules	Code	Packing/ No. items
Turquoise blue satin finish	3	2CSE0330SFV	1/12
	4	2CSE0430SFV	1/6
Topaz orange satin finish	3	2CSE0315SFV	1/12
	4	2CSE0415SFV	1/6
Emerald green satin finish	3	2CSE0340SFV	1/12
	4	2CSE0440SFV	1/6
Zircon yellow	3	2CSE0317SFV	1/12
	4	2CSE0417SFV	1/6
Pearl white satin finish	3	2CSE0312SFV	1/12
	4	2CSE0412SFV	1/6
Quartz white	3	2CSE0313SFV	1/12
	4	2CSE0413SFV	1/6

Technical details and customization on page 4/90

Élos - Order codes

Élos Soft metal frames



600235F0901

Glossy chromium colour



600234F0901

Brushed steel colour



600235F0901

Natural zama colour



600236F0901

Glossy gold colour



600273F0901

Silver grey colour



600274F0901

Light silver grey colour



600275F0901

Volcano grey colour



600276F0901

Slate grey colour

Metal frames with special surface treatments

Colour	No. modules	Code	Packing/ No. items
Glossy chromium	3	2CSE0350SFZ	1/12
	4	2CSE0450SFZ	1/6
	6	2CSE0650SFZ	1/6
Brushed steel	3	2CSE0351SFZ	1/12
	4	2CSE0451SFZ	1/6
	6	2CSE0651SFZ	1/6
Natural zama	3	2CSE0352SFZ	1/12
	4	2CSE0452SFZ	1/6
	6	2CSE0652SFZ	1/6
Glossy gold	3	2CSE0353SFZ	1/12
	4	2CSE0453SFZ	1/6
	6	2CSE0653SFZ	1/6

Technical details and customization on page 4/90

Pearlescent metal frames with glossy finish

Colour	No. modules	Code	Packing/ No. items
Silver grey	3	2CSE0302SFZ	1/12
	4	2CSE0402SFZ	1/6
	6	2CSE0602SFZ	1/6
Light silver grey	3	2CSE0303SFZ	1/12
	4	2CSE0403SFZ	1/6
	6	2CSE0603SFZ	1/6
Volcano grey	3	2CSE0304SFZ	1/12
	4	2CSE0404SFZ	1/6
	6	2CSE0604SFZ	1/6
Slate grey	3	2CSE0305SFZ	1/12
	4	2CSE0405SFZ	1/6
	6	2CSE0605SFZ	1/6

Technical details and customization on page 4/90

Élos - Order codes

Élos Soft metal frames

4



600296F0001

Titanium grey colour



600277F0001

Dune yellow colour



600278F0001

Sahara yellow colour



600279F0001

Havana brown colour



600280F0001

Copper red colour



600281F0001

Clay red colour



600283F0001

Atlantic blue colour

Pearlescent metal frames with glossy finish

Colour	No. modules	Code	Packing/ No. items
Titanium grey	3	2CSE0306SFZ	1/12
	4	2CSE0406SFZ	1/6
	6	2CSE0606SFZ	1/6
Dune yellow	3	2CSE0315SFZ	1/12
	4	2CSE0415SFZ	1/6
	6	2CSE0615SFZ	1/6
Sahara yellow	3	2CSE0316SFZ	1/12
	4	2CSE0416SFZ	1/6
	6	2CSE0616SFZ	1/6
Havana brown	3	2CSE0317SFZ	1/12
	4	2CSE0417SFZ	1/6
	6	2CSE0617SFZ	1/6
Copper red	3	2CSE0321SFZ	1/12
	4	2CSE0421SFZ	1/6
	6	2CSE0621SFZ	1/6
Clay red	3	2CSE0322SFZ	1/12
	4	2CSE0422SFZ	1/6
	6	2CSE0622SFZ	1/6
Atlantic blue	3	2CSE0330SFZ	1/12
	4	2CSE0430SFZ	1/6
	6	2CSE0630SFZ	1/6

Technical details and customization on page 4/90



600284F0901

Mediterranean blue colour



600291F0901

Fjord blue colour



600285F0901

Lake green colour



600288F0901

Forest green colour



600287F0901

Anthracite grey colour



600288F0901

Antarctic white colour



600288F0901

ABB red colour

Pearlescent metal frames with glossy finish

Colour		No. modules	Code	Packing/ No. items
Mediterranean blue	PHASE OUT	3	2CSE0331SFZ	1/12
		4	2CSE0431SFZ	1/6
		6	2CSE0631SFZ	1/6
Fjord blue	PHASE OUT	3	2CSE0332SFZ	1/12
		4	2CSE0432SFZ	1/6
		6	2CSE0632SFZ	1/6
Lake green	PHASE OUT	3	2CSE0340SFZ	1/12
		4	2CSE0440SFZ	1/6
		6	2CSE0640SFZ	1/6
Forest green	PHASE OUT	3	2CSE0341SFZ	1/12
		4	2CSE0441SFZ	1/6
		6	2CSE0641SFZ	1/6

Technical details and customization on page 4/90

Metal frames with glossy finish

Colour		No. modules	Code	Packing/ No. items
Anthracite grey		3	2CSE0301SFZ	1/12
		4	2CSE0401SFZ	1/6
		6	2CSE0601SFZ	1/6
Antarctic white		3	2CSE0311SFZ	1/12
		4	2CSE0411SFZ	1/6
		6	2CSE0611SFZ	1/6
ABB red	PHASE OUT	3	2CSE0320SFZ	1/12
		4	2CSE0420SFZ	1/6
		6	2CSE0620SFZ	1/6

Technical details and customization on page 4/90

Élos - Order codes

Élos Soft technopolymer frames



600273F0001

Silver grey colour



600274F0001

Light silver grey colour



600275F0001

Volcano grey colour



600276F0001

Slate grey colour



600277F0001

Dune yellow colour



600278F0001

Sahara yellow colour



600279F0001

Havana brown colour



600280F0001

Copper red colour

Pearlescent technopolymer frames with glossy finish

Colour	No. modules	Code	Packing/ No. items
Silver grey	3	2CSE0302SFP	1/12
	4	2CSE0402SFP	1/6
	6	2CSE0602SFP	1/6
Light silver grey	3	2CSE0303SFP	1/12
	4	2CSE0403SFP	1/6
	6	2CSE0603SFP	1/6
Volcano grey	3	2CSE0304SFP	1/12
	4	2CSE0404SFP	1/6
	6	2CSE0604SFP	1/6
Slate grey	3	2CSE0305SFP	1/12
	4	2CSE0405SFP	1/6
	6	2CSE0605SFP	1/6
Dune yellow	3	2CSE0315SFP	1/12
	4	2CSE0415SFP	1/6
	6	2CSE0615SFP	1/6
Sahara yellow	3	2CSE0316SFP	1/12
	4	2CSE0416SFP	1/6
	6	2CSE0616SFP	1/6
Havana brown	3	2CSE0317SFP	1/12
	4	2CSE0417SFP	1/6
	6	2CSE0617SFP	1/6
Copper red	3	2CSE0321SFP	1/12
	4	2CSE0421SFP	1/6
	6	2CSE0621SFP	1/6

Technical details and customization on page 4/90



600281F0901

Clay red colour



600282F0901

Arizona red colour



600283F0901

Atlantic blue colour



600284F0901

Mediterranean blue colour



600285F0901

Mediterranean blue colour



600286F0901

Forest green colour

Pearlescent technopolymer frames with glossy finish

Colour	No. modules	Code	Packing/ No. items
Clay red	3	2CSE0322SFP	1/12
	4	2CSE0422SFP	1/6
	6	2CSE0622SFP	1/6
Arizona red	3	2CSE0323SFP	1/12
	4	2CSE0423SFP	1/6
	6	2CSE0623SFP	1/6
Atlantic blue	3	2CSE0330SFP	1/12
	4	2CSE0430SFP	1/6
	6	2CSE0630SFP	1/6
Mediterranean blue	3	2CSE0331SFP	1/12
	4	2CSE0431SFP	1/6
	6	2CSE0631SFP	1/6
Lake green	3	2CSE0340SFP	1/12
	4	2CSE0440SFP	1/6
	6	2CSE0640SFP	1/6
Forest green	3	2CSE0341SFP	1/12
	4	2CSE0441SFP	1/6
	6	2CSE0641SFP	1/6

Technical details and customization on page 4/90

Élos - Order codes

Élos Soft technopolymer frames

4



Anthracite grey colour



Antarctic white colour



ABB red colour

Technopolymer frames with glossy finish

Colour	No. modules	Code	Packing/ No. items
Anthracite grey	3	2CSE0301SFP	1/12
	4	2CSE0401SFP	1/6
	6	2CSE0601SFP	1/6
Anthracite grey	3	2CSE0311SFP	1/12
	4	2CSE0411SFP	1/6
	6	2CSE0611SFP	1/6
ABB red	3	2CSE0320SFP	1/12
	4	2CSE0420SFP	1/6
	6	2CSE0620SFP	1/6

Technical details and customization on page 4/90

Élos - Order codes

Élos Smart technopolymer frames



600297F0901

Silver grey colour



600298F0901

Light silver grey colour



600299F0901

Volcano grey colour



600300F0901

Slate grey colour



600301F0901

Titanium grey colour



600302F0901

Sahara yellow colour



600303F0901

Havana brown colour



600304F0901

Copper red colour

Pearlescent technopolymer frames with satin finish

Colour	No. modules	Code	Packing/ No. items
Silver grey	3	2CSE0302SMP	1/24
	4	2CSE0402SMP	1/12
	6	2CSE0602SMP	1/8
	8	2CSE0802SMP	1/8
Light silver grey	3	2CSE0303SMP	1/24
	4	2CSE0403SMP	1/12
	6	2CSE0603SMP	1/8
	8	2CSE0803SMP	1/8
Volcano grey	3	2CSE0304SMP	1/24
	4	2CSE0404SMP	1/12
	6	2CSE0604SMP	1/8
	8	2CSE0804SMP	1/8
Slate grey	3	2CSE0305SMP	1/24
	4	2CSE0405SMP	1/12
	6	2CSE0605SMP	1/8
	8	2CSE0805SMP	1/8
Titanium grey	3	2CSE0306SMP	1/24
	4	2CSE0406SMP	1/12
	6	2CSE0606SMP	1/8
	8	2CSE0806SMP	1/8
Sahara yellow	3	2CSE0316SMP	1/24
	4	2CSE0416SMP	1/12
	6	2CSE0616SMP	1/8
	8	2CSE0816SMP	1/8
Havana brown	3	2CSE0317SMP	1/24
	4	2CSE0417SMP	1/12
	6	2CSE0617SMP	1/8
	8	2CSE0817SMP	1/8
Copper red	3	2CSE0321SMP	1/24
	4	2CSE0421SMP	1/12
	6	2CSE0621SMP	1/8
	8	2CSE0821SMP	1/8

Technical details and customization on page 4/90

Élos - Order codes

Élos Smart technopolymer frames

4



600305F0001

Arizona red colour



600306F0001

Atlantic blue colour



600307F0001

Mediterranean blue colour



600308F0001

Lake green colour



600309F0001

Forest green colour

Pearlescent technopolymer frames with satin finish

Colour	No. modules	Code	Packing/ No. items
Arizona red	3	2CSE0323SMP	1/24
	4	2CSE0423SMP	1/12
	6	2CSE0623SMP	1/8
	8	2CSE0823SMP	1/8
Atlantic blue	3	2CSE0330SMP	1/24
	4	2CSE0430SMP	1/12
	6	2CSE0630SMP	1/8
	8	2CSE0830SMP	1/8
Mediterranean blue	3	2CSE0331SMP	1/24
	4	2CSE0431SMP	1/12
	6	2CSE0631SMP	1/8
	8	2CSE0831SMP	1/8
Lake green	3	2CSE0340SMP	1/24
	4	2CSE0440SMP	1/12
	6	2CSE0640SMP	1/8
	8	2CSE0840SMP	1/8
Forest green	3	2CSE0341SMP	1/24
	4	2CSE0441SMP	1/12
	6	2CSE0641SMP	1/8
	8	2CSE0841SMP	1/8

Technical details and customization on page 4/90



600310F0901

Anthracite grey colour



600311F0901

Stone grey colour



600312F0901

Antarctic white colour



600313F0901

ABB red colour

Pearlescent technopolymer frames with satin finish

Colour	No. modules	Code	Packing/ No. items
Anthracite grey	3	2CSE0301SMP	1/24
	4	2CSE0401SMP	1/12
	6	2CSE0601SMP	1/8
	8	2CSE0801SMP	1/8
	12	2CSE0901SMP	1/8
Stone grey	3	2CSE0307SMP	1/24
	4	2CSE0407SMP	1/12
	6	2CSE0607SMP	1/8
	8	2CSE0807SMP	1/8
Antarctic white	3	2CSE0311SMP	1/24
	4	2CSE0411SMP	1/12
	6	2CSE0611SMP	1/8
	8	2CSE0811SMP	1/8
	12	2CSE0911SMP	1/8
ABB red	3	2CSE0320SMP	1/24
	4	2CSE0420SMP	1/12
	6	2CSE0620SMP	1/8
	8	2CSE0820SMP	1/8

Technical details and customization on page 4/90

Élos - Technical details

General information

Main technical data and reference standards for the devices in the range

Component	Reference standards	Basic electrical data*			Prolonged operation No. changes of position	Resistance to abnormal heat and fire	
		Test voltage withstand (V)	Insulation resistance (MW)	Breaking capacity or usage category		Thermal pressure with ball (°C)	Glow wire tests (°C)
Operating mechanisms	CEI 23-9 (EN 60669-1)	2000 at 50Hz for 1 minute	> 5	1.25 In (200 changes of position)	40000 at In 250V~ cosφ = 0.6)	125	850
Socket outlets	CEI 23-5/CEI 23-50/CEI 23-16 (EN 60884-1)	2000 at 50Hz for 1 minute	> 5	1.25 In (100 changes of position)	10000 at In 250V~ cosφ = 0.8)	125	850
Latching relay	CEI 23-9/CEI 23-62 (EN 60669-1/EN 60669-2-2)	2000 a 50Hz for 1 minute	> 5	-	50000 at In 250V~ cosφ = 0.6)	125	850
Monostable relays	CEI 94-4/CEI-EN 61810-1 (EN 60669-1/EN 60669-2-2)	2000 a 50Hz for 1 minute	> 5	1.25 In (200 changes of position)	50000 at In 250V~ cosφ = 0.6)	125	850
Automatic MCBs	CEI 23-3 (EN 60898)	2000 a 50Hz for 1 minute	-	1.5...3kA	8000	125	850
Automatic RCDs	CEI 23-95	2000 a 50Hz for 1 minute	-	1.5...3kA	4000	125	850
Supports and frames	CEI 23-9 (EN 60669-1)	-	-	-	-	75	650

*For the rated voltages and currents see the specifications for the individual part codes.

Clamping capacity of the terminals

Flexible wires		Rigid wires	
Min. 0.75 mm²	Max. 2x4 mm²	Min. 0.5 mm²	Max. 2x2.5 mm²

Cable traction resistance of terminals: > 50N
Adhesion of switches and devices to the support: > 0.6J

Élos - Technical details

Installation solutions

Composition method for contact blocks and support

Élos Smart



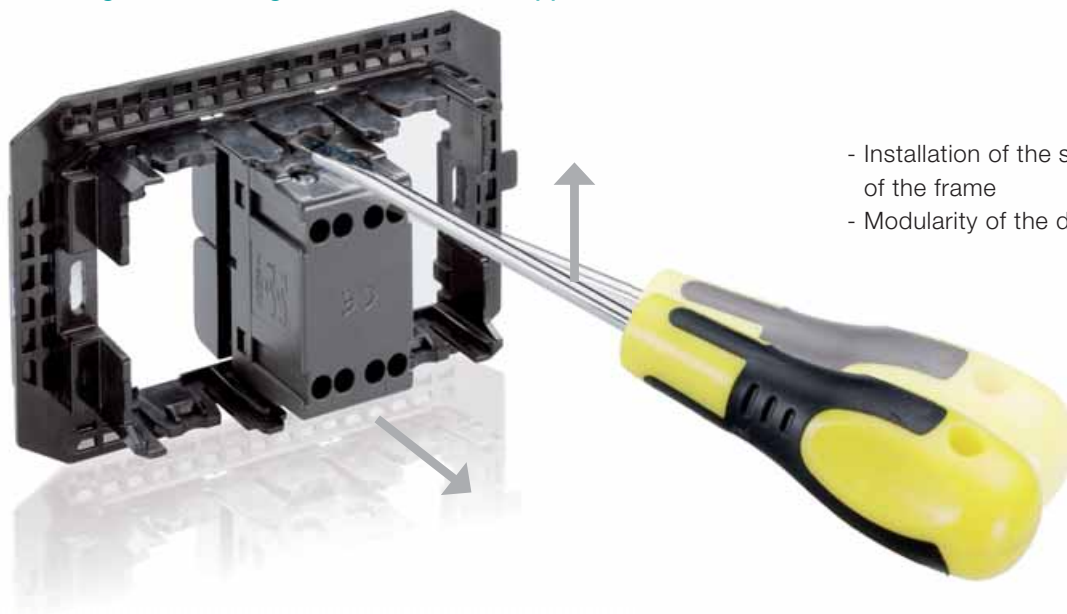
Élos Soft



Élos - Technical details

Installation solutions

Installing and removing switches from the support



- Installation of the switches from the backside of the frame
- Modularity of the devices: 25 mm

Specifications of screws and terminals

- Captive screws in open position with cross and slot head and clamping plate.
- Double input protected terminals for one or two conductors (rigid or flexible).



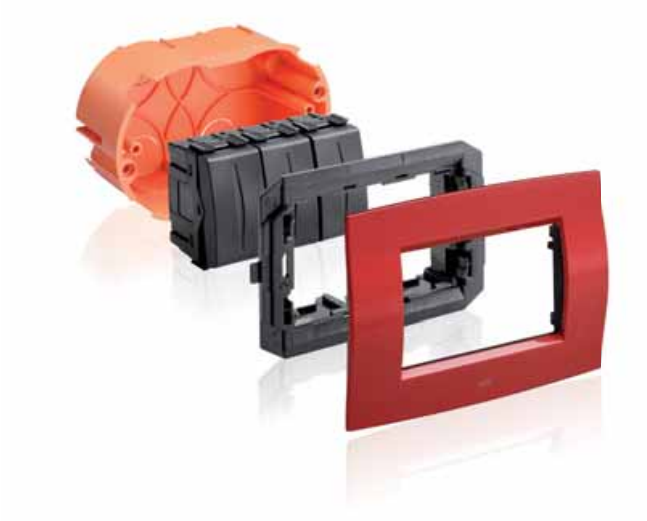
Installation on concrete walls



No. Modules	Screw distance	Recommended box
3	83.5 mm	1SL006A00
4	108.5 mm	00 053
6	100 mm	1SL0064A00
4+4 (only Élos Smart)	103.5 mm	Gewiss GW2437
6+6 (only Élos Smart)	153.5 mm	Gewiss GW2438

Note: for further information on ABB boxes for masonry walls please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66).

Installation of plasterboard walls



No. Modules	Screw distance	Recommended box
3	83.5 mm	Gewiss GW24207
4	108 mm	Gewiss GW24245 Vimar V71604
6	100 mm	Gewiss GW24246 Vimar V71606

Note: for further information on ABB boxes for plasterboard walls please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66).

Élos - Technical details

Installation solutions

Protected installation with IP40/55 wall-mounted enclosures



No. Modules	IP40 enclosure	IP55 enclosure
2	2CSE2240EL	2CSE2255EL
3	2CSE2340EL	2CSE2355EL
4	2CSE2440EL	2CSE2455EL
8	2CSE2840EL	2CSE2855EL

Note: the airtight enclosures allow devices to be assembled directly without the aid of supports. The contact blocks are inserted from the rear. See technical details on page 4/99.
For further information on IP40/IP55 wall-mounted enclosures, please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66).

Protected installation with airtight escutcheon plate



No. Modules	White IP55 escutcheon plate	Anthracite IP55 escutcheon plateon plate
3	2CSE4355EL	2CSE3355EL

Note: the airtight escutcheon plates provide a self-supporting solution that allows direct assembly devices without the aid of mounting frames. The cdevices are inserted from the rear.

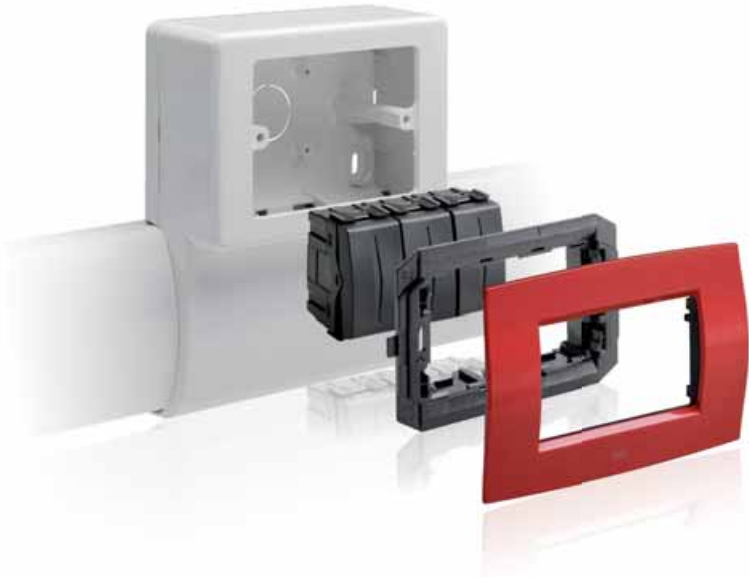
Installation on raised floors with Undernet under-floor turrets



No. Modules	Dedicated adapter	Undernet tower
4 (max 16 devices)	10917	10900 e 10901
5 (max 10 devices)	10916	10902 e 10903

Note: the dedicated adapter provides a self-supporting solution that allows direct assembly of devices without the aid of mounting frames. The devices are inserted from the rear. The use of trim frames is not supported.
For further information on Undernet under-floor towers please refer to the catalog 1SLC006001D0903 - Floor Distribution Systems (see page 5/66).

Installation on surface mounted boxes



No. Modules	Wall box	Frame
3	41 823	Use a 3-module mounting frame and an Élos Soft or Élos Smart frame
3	41 822	Use a 3-module mounting frame and an Élos Soft or Élos Smart frame
4	41 830	Use a 4-module mounting frame and an Élos Soft or Élos Smart frame

Note: for further information on wall boxes and duct systems please refer to the catalog 1SLC800001D0905 - Plastic and Metal Duct Systems (see page 5/66).

Élos - Technical details

Installation solutions

Installation on Lusy table towers



No. Modules	Lusy tower	Frame
4	10 507	Use a 4-module mounting frame and an Élos Soft or Élos Smart frame

Note: for further information on Lusy Undernet table towers please refer to the catalog 1SLC006001D0903 - Floor Distribution Systems (see page 5/57).

Installation on rails



No. Modules	Enclosure with white frame	Enclosure with anthracite frame
1	2CSE3101EL	2CSE3102EL

Note: the enclosure provides a self-supporting solution that allows the devices to be assembled directly without the aid of mounting frames. The contact blocks are inserted from the rear.

Élos - Technical details

Selection of lights

Selection of lights for devices incorporating luminous signalling

Control devices, push switches with diffuser and warning lights

Bulb lamps		Filament		Fluorescence		LED	
2CSE1004SF	1P switch, 16A with functional indication						
2CSE1004SM	1P switch, 16A with functional indication						
2CSE1006SF	2P switch, 16A with functional indication						
2CSE1006SM	2P switch, 16A with functional indication						
2CSE1008SF	1P two-way switch, 16A with functional indication						
2CSE1008SM	1P two-way switch, 16A with functional indication						
2CSE1015SF	1P push switches NO, 16A, with functional indication						
2CSE1015SM	1P push switches NO, 16A, with functional indication						
2CSE1024EL	1P push switches NO, 16A, with red diffuser	2CSE1613EL	2CSE1614EL	2CSE1615EL	2CSE1616EL	2CSE1632EL	2CSE1633EL
2CSE1025EL	1P push switches NO, 16A, with green diffuser	White	White	Red	Green	Blue	White
2CSE1027SF	1P push switches NO, 16A, with DOOR OPENER symbol	12V	24V	230V	230V	230V/110V	230V/110V
2CSE1027SM	1P push switches NO, 16A, with DOOR OPENER symbol	0.4W	0,8W	0.4W	0.8W	1W	1W
2CSE1028SF	1P push switches NO, 16A, with BELL symbol						
2CSE1028SM	1P push switches NO, 16A, with BELL symbol						
2CSE1029SF	1P push switches NO, 16A, with LAMP symbol						
2CSE1029SM	1P push switches NO, 16A, with LAMP symbol						
2CSE1030SF	1P push switches NO, 16A, with STAIR LIGHT symbol						
2CSE1030SM	1P push switches NO, 16A, with STAIR LIGHT symbol						
2CSE1315EL	Double warning light 12/24/250V~, red/green						

Torpedo lamp		Filament		Fluorescence		LED	
2CSE1026EL	Single-pole push switch NO, 10A, with backlit label holder plate	2CSE1619EL	2CSE1620EL				
		Bianca	Bianca				
		12V 2W	24V 2W				
		S6x36	S6x36				

Signalling devices

Torpedo lamp		Filament		Fluorescence		LED	
2CSE1310EL	Amber warning light, 12/24/250V~	2CSE1621EL	2CSE1622EL				
2CSE1311EL	Transparent warning light, 12/24/250V~	White	White				
2CSE1312EL	Red warning light, 12/24/250V~	12V 2W	24V 2W				
2CSE1313EL	Green warning light, 12/24/250V~	S6X31	S6X31	2CSE1623EL	2CSE1624EL		
2CSE1314EL	Blue warning light, 12/24/250V~			Red	Green		
2CSE1316EL	Opal steplight lamp with adjustable beam, 12/24V	2CSE1619EL	2CSE1620EL	110/230V	110/230V		
		White,	White,	0.4W S6,3X28	0.4W S6,3X28		
		12V 2W	24V 2W				
		S6X36	S6X36				



Élos - Technical warning

Control devices

Switches, two-way switches, intermediate switches, push switches

Area of application

Control (on and off) of ohmic-inductive loads:

- with filament and fluorescent lamps (corrected and uncorrected);
- dedicated circuits for powered equipment (aspirators, range hoods, shutters, blinds, fans, etc..) and controllable outlets.

4

To eliminate architectural barriers in creating installations, we recommend the use of illuminable switches (Article 4 of Italian Ministerial Decree no. 236 of 14.06.1989).

Technical specifications

Rated voltage	250V~
Rated current	10A (16A for push switches)
Opening distance of the contacts	> 3 mm
Dielectric strength	> 2000V~

Reference standards

LV Directive, EN 60669-1.

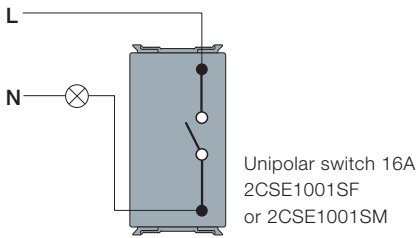
Customization of the control device keys

The illuminable keys of the Élos wiring accessories' range are supplied with all most widely used functional symbols. In addition, it is possible to replace the standard control key covers with other covers bearing different symbols.

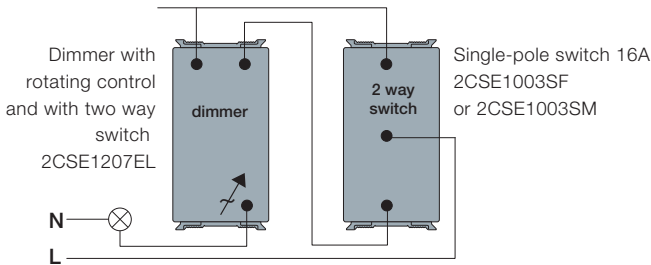
Wiring diagrams

The diagrams provided below are the most widely applied installation solutions in creating lighting points.

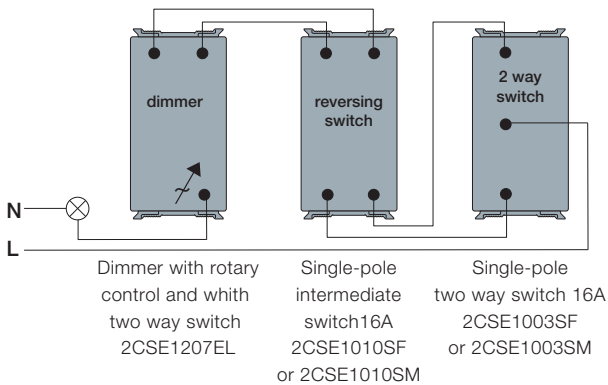
Control from one point



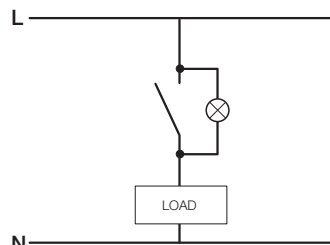
Control from two points and regulation from one point



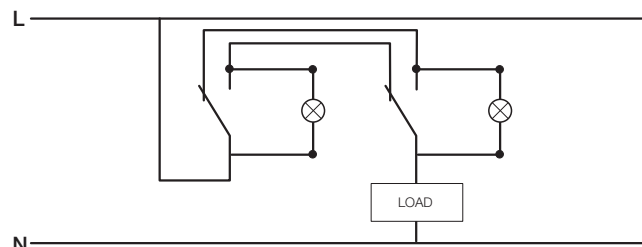
Regulation from three points and control from a point



Example of functional indication

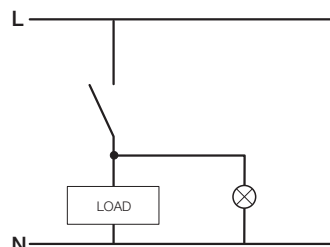


Indicator light on when the circuit-breaker is OFF (if the circuit-breaker is in the ON state, the indicator light is off while the user is energised).

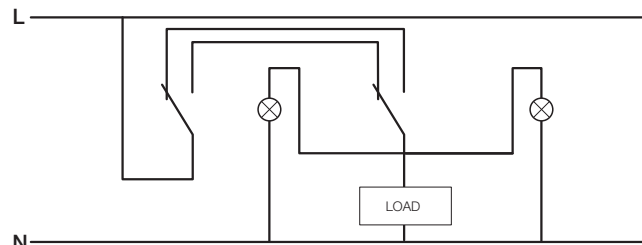


The two indicator lights switch on and off respectively when the user is in OFF and ON state.

Example of remote signalling



Warning light placed in parallel to the user device, of which indicates the ON/OFF state (it is on when the switch is ON).



Two warning lights placed in parallel with the user (they switch on and off with it).

Instructions for installation in systems with relays and illuminable push switches

LEDs and lamps must be connected in parallel. In addition, the LEDs must be mounted in phase with all the cathodes, identified by wires marked as "ABB 230V", connected to the phase or the neutral.

Using single-pole latching relays 2CSE1012EL, it is possible to connect up to nine LEDs and up to four fluorescent lamps: by adding a 0.94µF capacitor to the heads of the relay, up to twelve fluorescent lamps can be connected.

Using double-pole latching relays 2CSE1013EL, it is possible to connect one LED or two fluorescent lamps: by adding a 1.41µF capacitor to the heads of the relay, up to twelve fluorescent lamps can be connected.

Backlighting of the control devices

Night-time location



Characteristics

- It allows the command key to be located in the dark.
- We recommend the use of white, blue, green or red Élos lamps

Applications

- Bedrooms
- Corridors

Functional indication



Characteristics

- This allows the command key to be identified and the ON/OFF status of a circuit to be signalled in the dark.
- With a red, white or blue lamp, the signalling is intense.
- With a green lamp, the luminosity level is low and does not interfere with sleep.

Applications

- General services of a building complex (entrance halls, stair lights, landings etc.)
- Public environments (cinemas, theatres etc.)

Signalling with symbols



Characteristics

- This allows the command key and its specific function to be identified in the dark.

Applications

- Warehouses, shops, offices
- Hotels
- Nursing homes, hospitals

Con spia luminosa



Characteristics

- Allows the ON/OFF status of an appliance or a lighting circuit, even at a distance.
- Visible from both a front and side position.

Applications

- Signalling the lighting up of lighting points outside the environment in which the operating device is installed

Élos - Technical details

Control devices

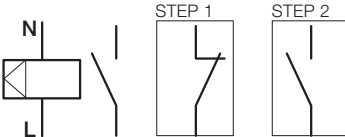
Relays

Description	Code
Latching relay, 1 pole. Output contact 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	2CSE1012EL
Latching relay, 2 poles. Output contacts 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	2CSE1013EL

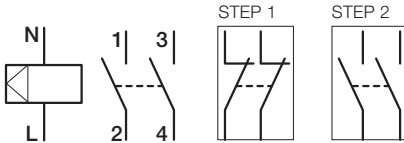
Relay with latching operation for control and adjustment from multiple lamps by means of single-pole push switches with NO (normally open) contact.

Wiring diagrams

2CSE1012EL



2CSE1014CH



Technical specifications

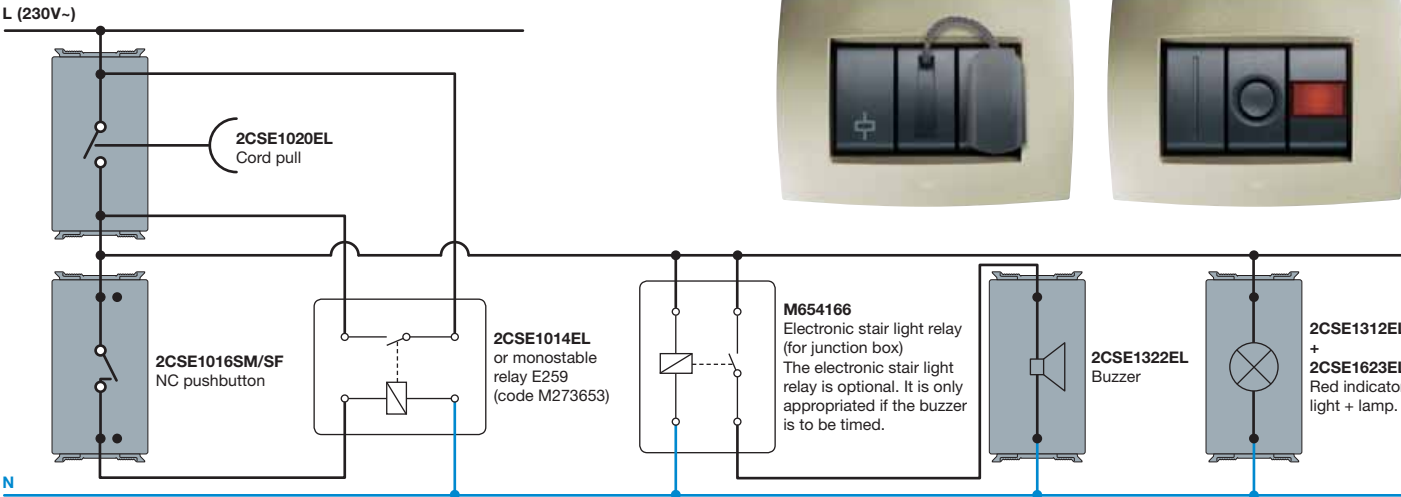
Power supply voltage (coil)	230V - 50/60Hz
Output contact	2CSE1012EL 1NA / 2CSE1013EL 2NA; 10A (AC1) / 7A (AC15) - 250V~

Reference standards

EN 60669-1, EN 60669-2-2.

Examples of application

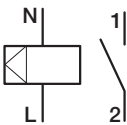
The flush-mounted relays of the Élos wiring accessories' range can be used to implement a disabled bathroom calling system with a reset push switch:



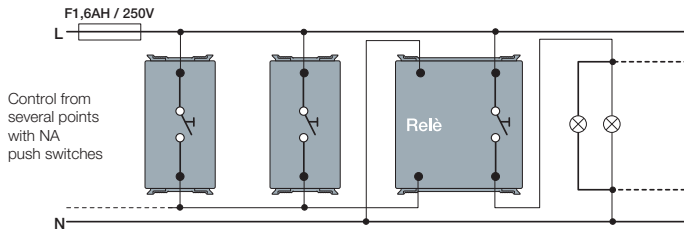
Description	Code
Monostable relay, 1 pole. Output contact 10A (AC1)/4A (AC15) - 250V~. With 230V~ 50/60Hz coil	2CSE1014EL

For the implementation of automation or separations between the control circuit and power circuit. It can be used as an auxiliary element for the control of particular loads.

Wiring diagrams



Wiring diagram for the relays with NO push switches



Technical specifications

Power supply voltage (coil)	230V - 50/60Hz
Output contact	1 change-over contact NO/NC; 10A (AC1) / 4A (AC15) - 250V~

Reference standards

EN 60669-1, EN 60669-2-2, CEI EN 61810-1.

Élos - Technical details

Key covers and sockets

Key covers

Customization of the control device keys

The Élos series allows customization of the control devices thanks to the wide choice of available key covers. Replacing them is very simple, does not require the use of special tools and can be done without disassembling the components. Customization of control devices is possible both for devices with a one module key and for those with a half-module key. The range includes key covers with/without functional labels and with/without symbols.

The 1/2 module key covers are suitable for installation as a replacement on code 2CSE1017EL, except for the "key covers with diffuser" that can be installed as a replacement on codes 2CSE1024EL and 2CSE1025EL.



4

Plug sockets

Area of application

Powering of household appliances, lighting equipment etc.

Main features Italian and German standard sockets

The cells of the sockets are segregated and protected when the plug is disconnected: the live parts are accessible only with the corresponding plug fully inserted.

Technical specifications

Rated voltage	250V~
Rated current	10A or 16A
Shielded and elastic live cells	

Double sockets

Characteristics

- Three terminals for powering the multiple socket
- It is not necessary to use jumpers

Applications

- Drawing of current for all the devices installed in the environment and linked from a functional point of view

Benefits

- Safety of the connections and the earthing continuity
- Shorter wiring times
- Smaller total dimensions in the flush-mounted box

Possibility of coupling Élos sockets with the various types of plugs on the market

	2P, 10A	2P, 2,5A	2P+T, 10A	2P, 16A	2P+T, 16A	Schuko 2P+T, 16A	American 2P, 15A

Plug sockets, 250V~, Italian standard with safety shields

		2P, 10A	2P, 2,5A	2P+T, 10A	2P, 16A	2P+T, 16A	Schuko 2P+T, 16A	American 2P, 15A
	P 11	■	■	■				
	2CSE1101EL							
	P 17				■	■		
	2CSE1102EL							
	P 17/11	■	■	■	■	■		
	2CSE1103EL							
	P 17/11	■	■	■	■	■		
	2CSE1107EL							

Élos - Technical details

Socket outlets

	2P, 10A	2P, 2,5A	2P+T, 10A	2P, 16A	2P+T, 16A	Schuko 2P+T, 16A	Americano 2P, 15A

Plug sockets, 250V~, Italian/German standard with safety shutters and side/central earth

	P 30	■	■	■			■	
	2CSE1108EL							
	P 30/17	■	■	■	■	■	■	
	2CSE1109EL							

	2P, 10A	2P, 2,5A	2P+T, 10A	French 2P+T, 16A	American 2P, 15A	American 2P+T, 15A	British 2P+T 13A, BS1363	Australian 2P+T 10A	Swiss 2P+T 10A

Plug sockets, foreign standard with safety shutters

	Std French	■	■		■				
	2CSE1144EL								
	Std EuroAmerican	■	■	■		■			
	2CSE1136EL								
	Std British						■		
	2CSE1134EL								
	Std American				■	■			
	2CSE1145EL								
	Std Australian/ South							■	
	2CSE1141EL								
	Std Swiss	■	■						■
	2CSE1148EL								

Special sockets

	Shaver socket ⁽¹⁾	■	■			■			
	2CSE1113EL								
	SELV socket ⁽²⁾								
	2CSE1114EL								
	SELV socket ⁽³⁾								
	2CSE1115EL								

⁽¹⁾ Shaver socket, European/American standard with insulating transformer 230V~ - 50/60 Hz - ⁽²⁾ 2P socket, 6A, 24V (SELV) - ⁽³⁾ Polarised socket 2P, 6A, 24V (SELV)

Reference standards

CEI 23-5, CEI 23-50, CEI 23-16 (IEC 60884-1).

Note: In general, no plug sockets of any standard for domestic use fall under the European low voltage directive, because there is no harmonized European standard for these types of sockets: in fact, each country has its own standard and therefore a single standard is impossible. For this reason the plug sockets do not bear the CE mark. All the sockets of the Élos wiring accessories' range conforming to CEI 23-50 are however are certified by IMQ as a further guarantee of their quality and compliance with standards.

Interlocked socket outlets

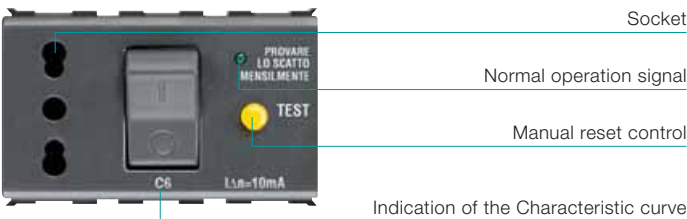
Description	Code
2P+E socket outlet, 16A - 250V~, interlocked with MCB, P17/11	2CSE1324EL
2P+E socket outlet, 16A - 250V~, interlocked with MCB, P30	2CSE1325EL
2P+E socket outlet, 16A - 250V~, with RCD, 10mA, P17/11	2CSE1326EL

Components

Interlocked socket outlets with MCB (PIA)



Interlocked socket outlets with automatic RCD (PID)



Interlocked socket outlets with MCB (PIA)

These sockets are suitable for installation in the system terminations for protection of the load supplied from the outlet against dangers of short circuits and overloads.

Interlocked socket outlets with automatic RCD (PID)

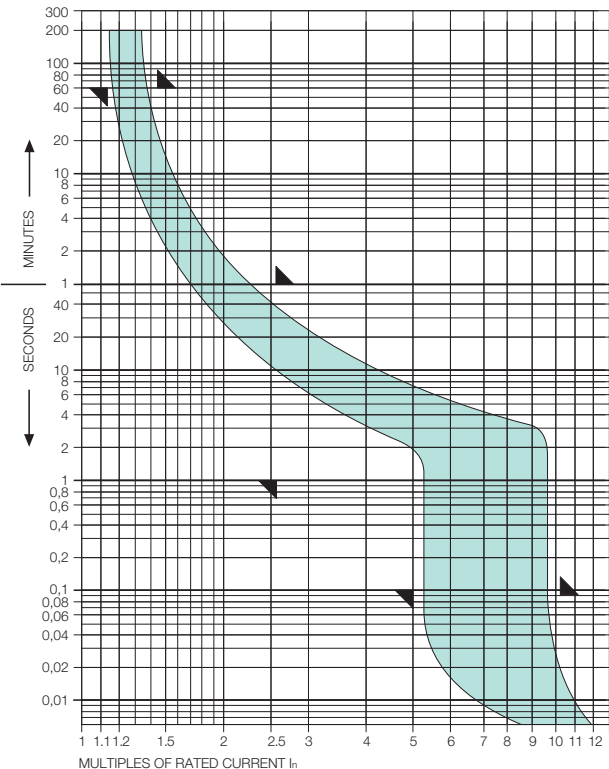
These sockets are suitable for installation in the system terminations for protection of the load supplied from the outlet against dangers of short circuits and overloads, as well as protection of the user against contact voltages. The residual current function with sensitivity of 10 mA also acts in the presence of non-sinusoidal fault currents (alternating currents mixed with unidirectional pulsating currents). In compliance with installation standards, they are particularly suitable for the protection of:

- terminal user devices in rooms where there is a greater risk of electrocution (bathrooms, showers, etc.)
- sockets that power class 1 users with electronic circuits
- sockets for portable user devices in domestic or similar environments (irons, drills, etc.

Operation

The MCB or RCD interlocked with the socket energises the cells of the socket only after the plug has been inserted and automatically cuts off voltage to the socket before the plug is fully extracted. Therefore the plug is always inserted and extracted without an electrical arc. The lever of the circuit-breaker can be closed only after the plug is inserted; without the plug, the lever operates without effect and does not close the switch.

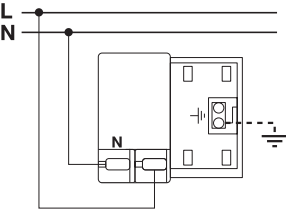
Current-time tripping diagrams for automatic circuit-breakers of the Élos range



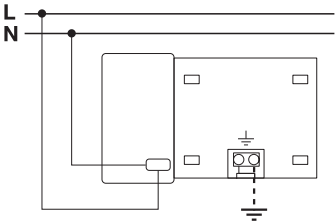
Élos - Technical details

Socket outlets

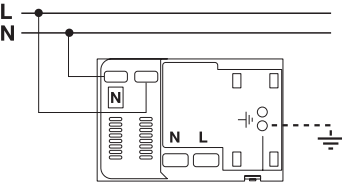
Wiring diagrams



2CSE1324EL



2CSE1325EL



2CSE1326EL

Technical specifications	
Power supply voltage	230 V~ - 50 Hz
Residual current (sensitivity)	IΔn 10 mA
Operation dependent on the line voltage	they must be installed downstream of a general residual current circuit-breaker
Thermomagnetic tripping	with characteristic C
Double-pole isolation	with 1 protected pole
Breaking capacity	3000 A
Rated current corresponding to the standard of the socket	
Type A RCBO for alternating and unidirectional pulsating currents	
Front LED with green light indicates normal operation with the presence of network power supply of network and contact closed	

Reference standards:

- Interlocked socket outlets with MCB:
LV Directive, Standard CEI 23-97
- Interlocked socket outlets with RCD:
LV Directive, Standard CEI 23-96

Plug sockets for dedicated lines

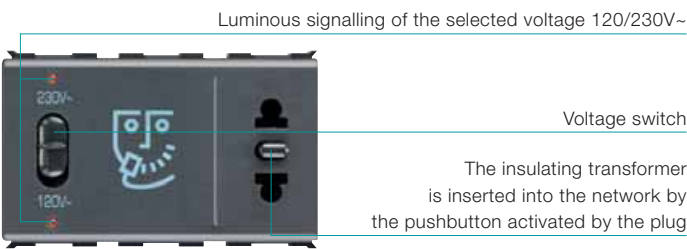
Plug sockets for dedicated lines allow outlet points to be differentiated according to their particular application, avoiding incorrect connection of unsupported appliances. Different coloured enclosures (red, orange, green) distinguish them from common power sockets. There are as yet no standard regulations on the correspondence between the colour of the socket and the type of power supply. In order to distinguish the area of application, the following usage customs are adopted.

- Red:** continuous power supply with UPS (uninterruptible power supply) through an insulating transformer.
- Orange:** power supply protected by network-generator unit through an insulating transformer.
- Green:** safety power supply with network/generator unit.

Special sockets

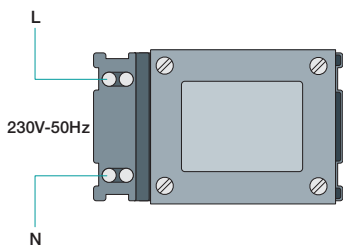
Description	Code
2P shaver socket with insulating transformer. Power supply 230V~ - 50/60Hz. Output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket P11 type)	2CSE1113EL

Components



The shaver socket of the Élos wiring accessories' range is equipped with a protection mechanism against overloads that disconnects the primary circuit if the energy drawn exceeds 20VA. In fact, the socket contains an insulating transformer with a power rating of 20VA, resistant to short circuits and powered by a button operated directly by the plug inserted in the socket. After the device cooling time has passed, reconnection takes place automatically. In accordance with the prescriptions of Standard CEI 64-8 for domestic appliances and the like, the shaver socket can be installed in non-dusty environments and where no special protection against the penetration of water is necessary. A double insulation isolates the secondary power supply circuit, to which the cells of the socket are connected, from the primary circuit, allowing the elimination of additional protections on the cells of the socket under the same safety conditions.

Wiring diagrams



Technical specifications	
Power supply	230V~ 50-60Hz
Output voltage	230V~ 2.5A 2P plugs (European standard) 120V~ for 15A 125V~ 2P plugs (American standard) with non-polarized flat pins
Available power	20VA
Built-in protection against overload, with automatic reset	
Dimensions	3 modules
Isolation transformer conforming to Standards CEI 96-1	
Primary	230V~
Secondary	120 e 230V~
Frequency	50/60 Hz
Power rating	20 VA
Protection against overloads via PTC with automatic reset	

Reference standards

CEI 23-5, CEI 23-50, CEI 23-16 (IEC 60884-1).

Élos - Technical details

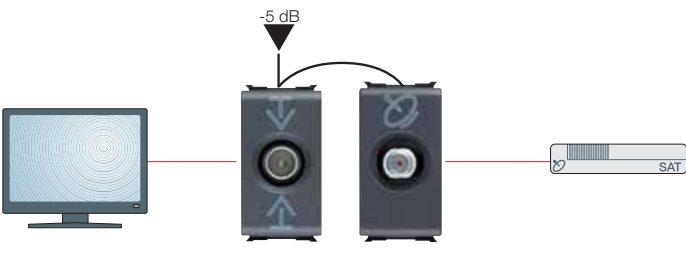
Socket outlets

TV/SAT sockets

The recent evolution of television transmission systems and of the services aimed at users has made it necessary to increase the level of performance and quality of signal distribution system.

The new EN 50083 Reference Standards (cable distribution system for television and audio signals) define the European standard by prescribing the requirements for the components of the installation, included the terminal sockets.

The TV/SAT coaxial sockets of the Élos wiring accessories' range allow appliances to be connected to audio and video signal distribution systems, analog and digital, from satellite, terrestrial and via cable with bandwidth between 5 and 2400MHz, ensuring the optimal distribution of analog and digital signals, as required by the operators in order to access their services.

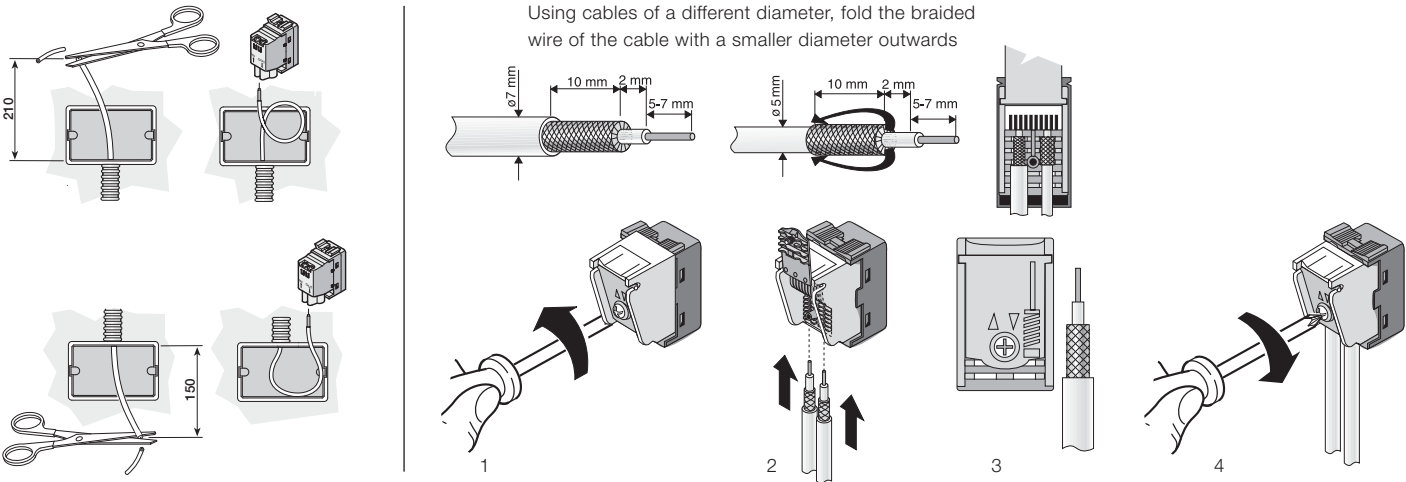


Attenuation values of the TV/SAT sockets

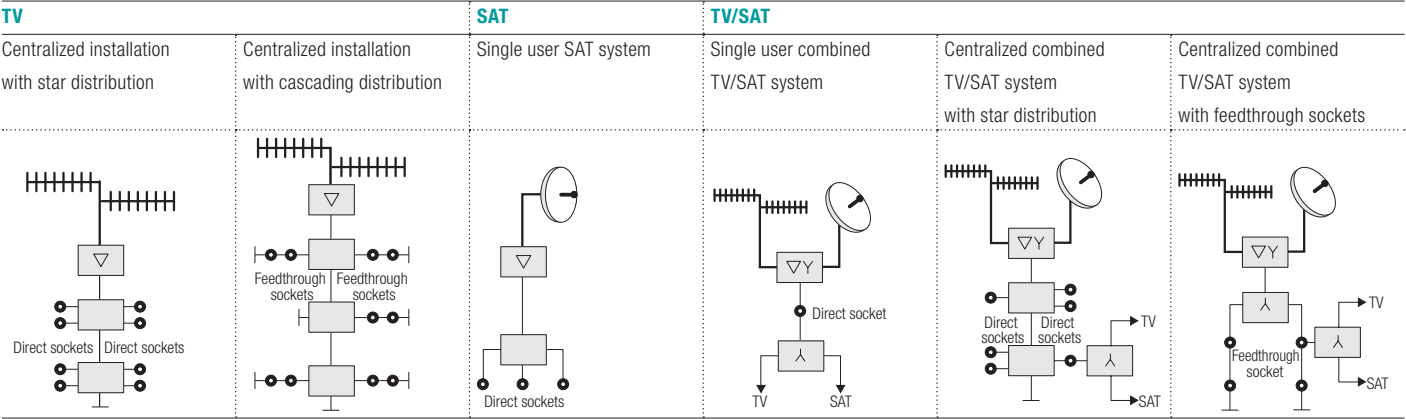
Rated attenuation (dB)	Bridging attenuation (flatness of the response)				Bridging attenuation (flatness of the response)				Directivity		Return loss (dB)	
	Return channel	TV	SAT		Return channel	TV	SAT		Return channel	TV/SAT	Return channel	TV/SAT
	5-40MHz	47-862MHz	950-2150MHz	2150-2400MHz	5-40MHz	47-862MHz	950-2150MHz	2150-2400MHz	5-40MHz	47-2400MHz	5-40MHz	47-2400MHz
0	-	-	-	-	≤ 0.5 dB (≤ 0.2 dB)	≤ 0.5 dB (≤ 0.5 dB)	≤ 0.8 dB (≤ 0.5 dB)	≤ 0.8 dB (≤ 0.5 dB)	-	-	≥ 10 dB	CEI-EN 50083-4

Rated attenuation (dB)	Bridging attenuation / Basic loss (flatness of the response)				Bridging attenuation / Basic loss (flatness of the response)				Directivity		Return loss (dB)	
	Return channel	TV	SAT		Return channel	TV	SAT		Return channel	TV/SAT	Return channel	TV/SAT
	5-40MHz	47-862MHz	950-2150MHz	2150-2400MHz	5-40MHz	47-862MHz	950-2150MHz	2150-2400MHz	5-40MHz	47-2400MHz	5-40MHz	47-2400MHz
5	≤ 5 dB (≤ 1.5 dB)	≤ 5 dB (≤ 1.5 dB)	≤ 6 dB (≤ 1.5 dB)	≤ 6,5 dB (≤ 1.5 dB)	≤ 5 dB (≤ 1.5 dB)	≤ 5 dB (≤ 1.5 dB)	≤ 6 dB (≤ 1.5 dB)	≤ 6,5 dB (≤ 1.5 dB)	> 12 dB	> 10 dB	≥ 10 dB	EN 50083-4 Grade 3

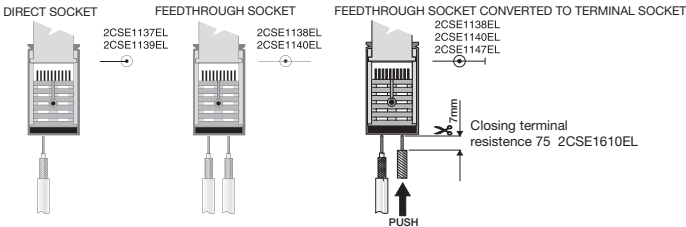
Installation Instructions



Examples of application



Wiring diagrams



Technical specifications

Frequency range	from 5 to 2400 MHz
Coaxial cable diameter	from ø 5 to ø 7 mm
Return channel	from 5 to 40 MHz
Shielding	class A
Wiring system	with front panel
Unequal chrominance/luminance delay	< 1 ns for all models

Reference standards

EN 50083-1, EN 50083-2, EN 50083-4.

Élos - Technical details

Socket outlets

Network and telephone sockets

The range includes devices for the implementation of telephone and computer networks, RJ11 4-contact telephone connectors for telephones, telefax, modems and RJ12 6-contact telephone connectors for intercommunicating telephone installations.

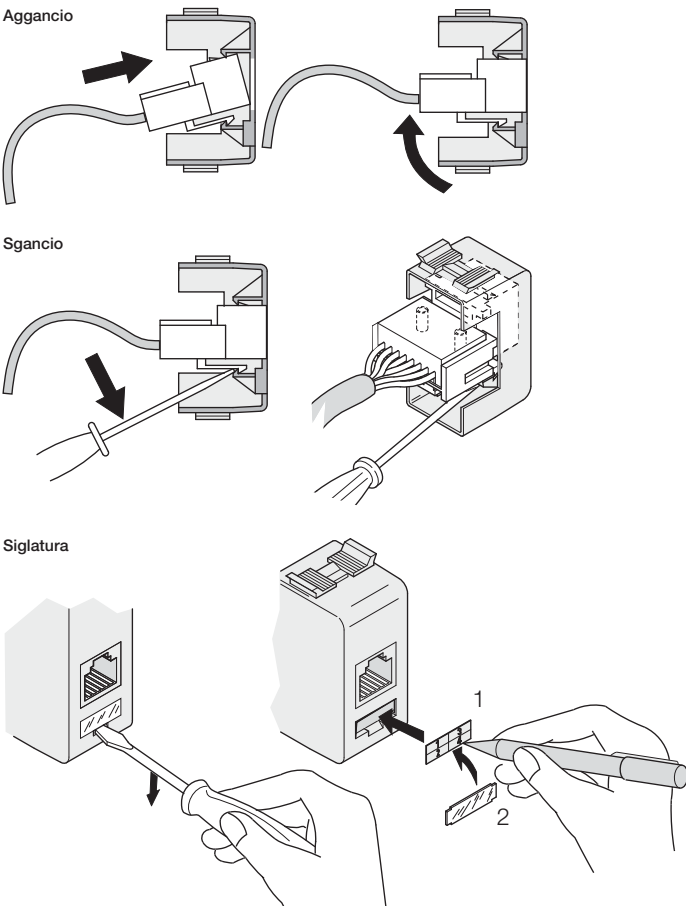
Main features

- Perforated insulation connection.
- Non-buttet conductors, inserted in the appropriate blade slots.
- Complete incision of the insulation and electrical continuity with the contact ensured by the closing of the cover.

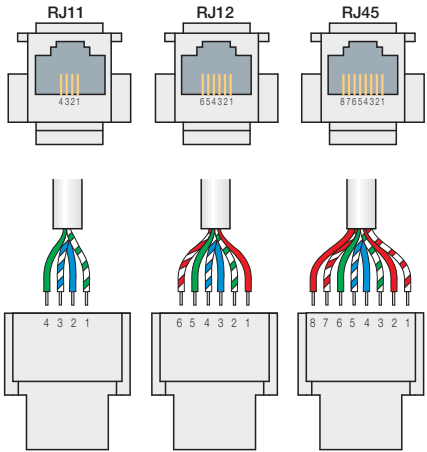
Telephone systems connected to Telecom Italia lines are subject to the regulations of Italian Law no. 109 of 28.03.1991.

Connector type	RJ11	RJ12
Number of contacts	4	6
Terminals	with insulation perforation (without the use of a tool)	
Category	3	3
Transmission speed	up to 16 Mb/s	up to 16 Mb/s

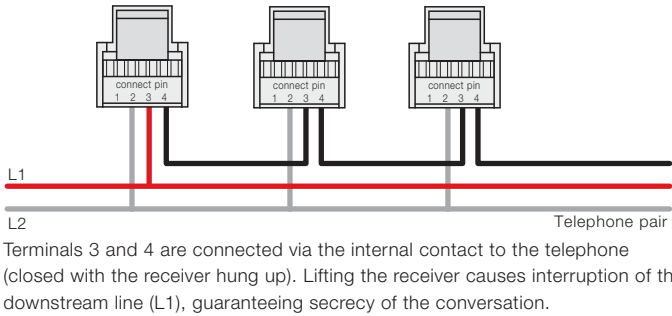
Installation Instructions



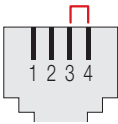
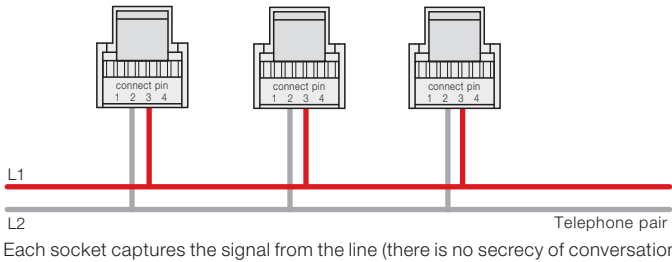
Wiring diagrams



Connection in series



Connection in parallel



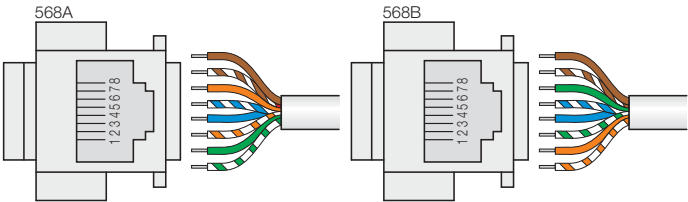
Note: extracting one of the plugs causes disconnection of sockets located downstream. In order to prevent this, you just need to insert a plug in the socket from which the telephone device was removed with a jumper between terminals 3 and 4.

Reference standards

EN 50083-1, EN 50083-2, EN 50083-4.

RJ45 connectors for data transmission, category 3 and 5e, partially shielded and not are available. These devices allow computer equipment (computers, modems, printers, etc) to be connected in a network and connection of multimedia devices. They can also be used for traditional and centralized telephone installations.

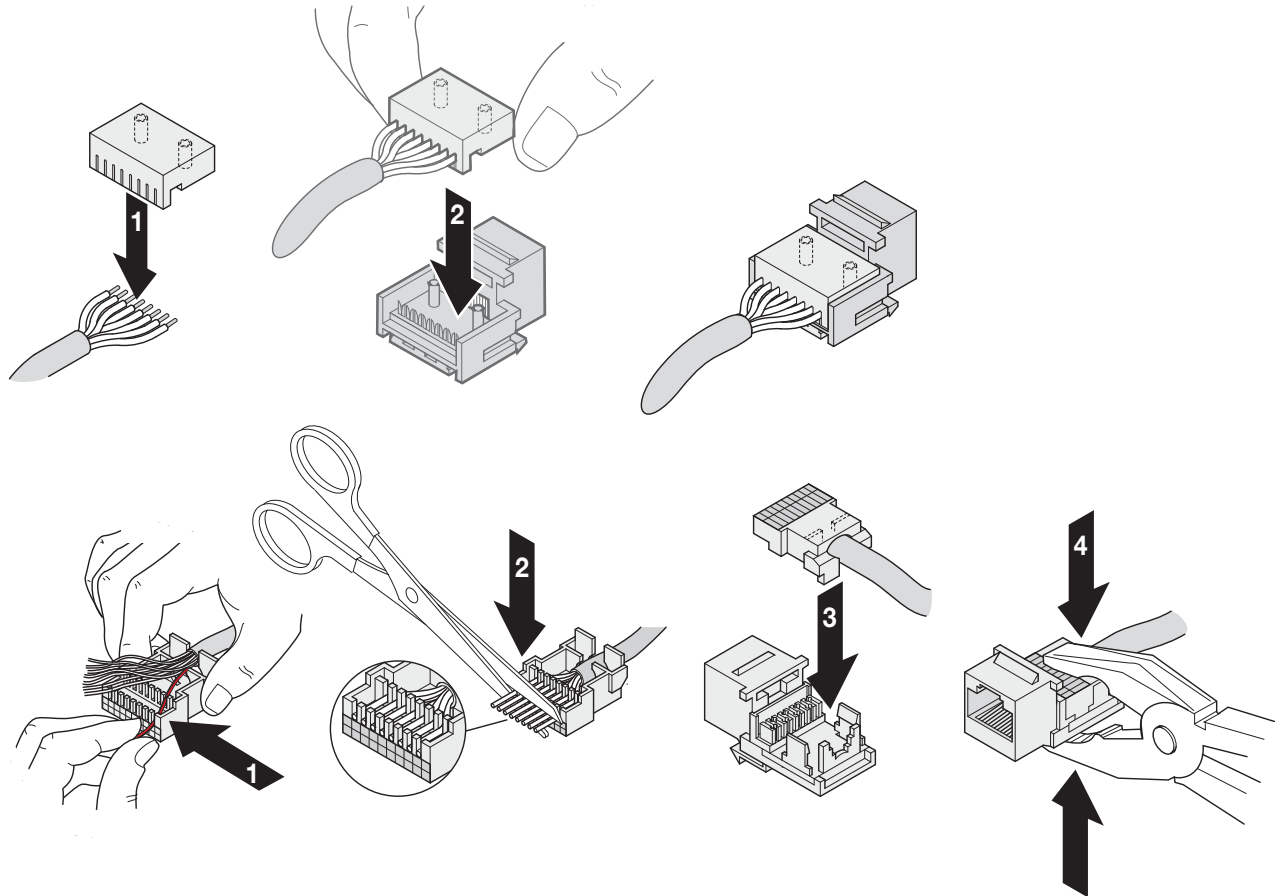
Wiring diagrams
To obtain the EIA/TIA 568A or 568B configuration included below, follow the colour code shown on the terminal box.



Connector type	RJ45 unshielded	RJ45 partially shielded	RJ45 unshielded
Type of cables that can be used	UTP	FTP	UTP
Number of contacts	8	8	8
Terminals	with insulation perforation (without the use of tools)		
Category	Cat. 3	Cat. 5e	Cat. 5e
Transmission speed	up to 16 Mb/s	up to 100 Mb/s	up to 100 Mb/s
Transmission protocols that can be used	EIA/TIA 658A - EIA/TIA 568B	EIA/TIA 658A - EIA/TIA 568B	EIA/TIA 658A - EIA/TIA 568B

Key
FTP = cable shielded with aluminium tape
UTP = unshielded cable

Installation Instructions



Élos - Technical details

Socket outlets

Adapter for structured wiring connectors

The structured wiring systems for data transmission are distinguished by their flexibility of use, installation independent of location and the use of the terminal outputs.

The suppliers of components and systems for structured wiring, when dealing with installations of a certain complexity and size, must be in able to show certification of conformity of the installation, directly or through accredited installers.

ABB meets this requirement with the adapter of the Élos, wiring accessories' range, which is compatible with various Keystone coupling connectors available on the market and enables integration between the Élos wiring accessories' range (code 2CSE1135EL) and the components for transmission of the data of the structured wiring systems.

Élos - Technical details

Protection devices

Fuse holders, overvoltage limiters and filters

Fuse holder

Description	Code
Fuse holder, for fuses ø 6.3x32 mm, 16A - 250V~	2CSE1301EL

Components



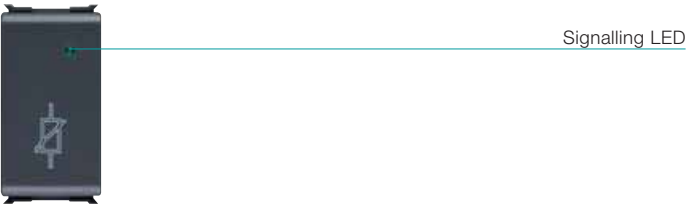
Choice of fuses

Fuses for fuse holders		
2CSE1301EL	Fuse holder, for fuses of the type ø 6,3 x 32mm, 16A, 250V~	2CSE1626EL 2A 6,3 x 32 mm 2CSE1627EL 4A 6,3 x 32 mm 2CSE1628EL 6A 6,3 x 32 mm 2CSE1629EL 10A 6,3 x 32 mm 2CSE1630EL 16A 6,3 x 32 mm

Overvoltage limiter

Description	Code
Overvoltage limiter with tripping signal, 75J, 250V~	2CSE1302EL

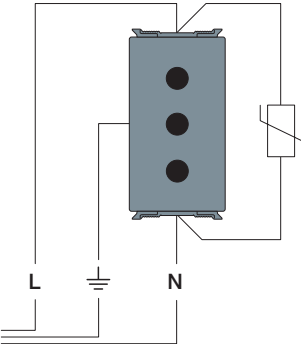
Components



The overvoltage limiter is a surge arrester of the type with a varistor that protects a terminal circuit terminal against overloads caused by operations or by atmospheric discharges that involve a risk to the safety of persons and that could compromise the correct operation of the connected consumers.

The varistor absorbs the over-voltage peak when the voltage value is greater than the priming value, acting as a very low value resistance. The over-voltage peak does not reach the connected consumer, or is extremely attenuated. In the event that the varistor breaks (indicated by the corresponding LED switching off), a fuse prevents a short-circuit occurring.

Wiring diagram



Technical specifications	
Rated voltage	250V~
Max. flashover current	8 kA (8/20 µs)
Max. discharge energy	75J

Reference standards

EN 60099-4.

Élos - Élos - Technical details

Protection devices

Anti-interference filter

Description	Code
Anti-interference filter, 3.5A - 250V~, attenuation at 1MHz equal to 55 dB	2CSE1303EL

Components



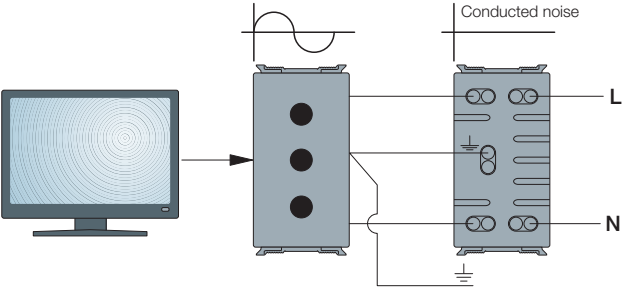
Filtro antidisturbo

The anti-interference filter is a passive type attenuator for the protection of connected electronic consumers against disturbances that occur in electrical networks due to operations or proximity to appliances or lines.

The filter is inserted upstream of consumers particularly sensitive to network disturbance and performs the function of discharging noise that occurs on the line (such as high frequency signals) to earth.

Only the voltage at the line frequency reaches the connected consumer; the harmonics of a higher grade are interrupted or attenuated.

Wiring diagram



Technical specifications	
Rated voltage	250V~
Rated current	3,5A
Attenuation (at 1 MHz)	55 dB
Leakage current	2 x 0,5 mA

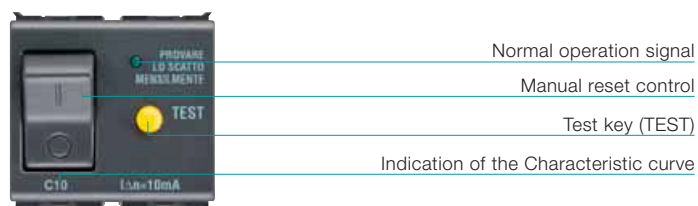
Reference standards
CEI 40-7, CEI 40-8, EN 60065.

Miniature circuit-breakers and Residual current circuit-breakers

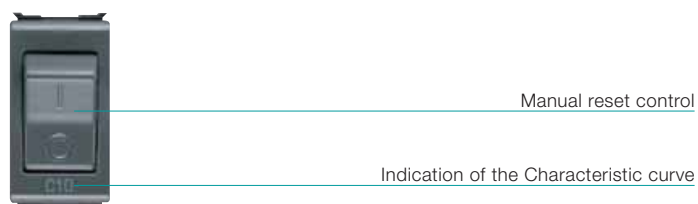
Description	Code
Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	2CSE1304EL
Automatic MCB, 1P+N, C10, breaking capacity 3kA	2CSE1305EL
Automatic MCB, 1P+N, C16, breaking capacity 3kA	2CSE1306EL
Automatic RCD, 1P+N, C6 - 10 mA, breaking capacity 1.5kA 2CSE1307EL	2CSE1307EL
Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2CSE1308EL
Automatic RCD, 1P+N, C16 - 10 mA, breaking capacity 3kA	2CSE1309EL
Automatic RCD, 1P+N, C6 - 30 mA, breaking capacity 1.5kA	2CSE1328EL
Automatic RCD, 1P+N, C10 - 30 mA, breaking capacity 3kA	2CSE1329EL
Automatic RCD, 1P+N, C16 - 30 mA, breaking capacity 3kA	2CSE1330EL

Components

Automatic RCD



Automatic MCB



Automatic MCBs and automatic RCDs provide protection against over-currents and earth fault currents of terminal circuits. Protection class with the device embedded in smooth vertical walls with the associated support, frame and blank covers, if required: IP41.

Instructions for installation and operation

Use in dry and dust-free locations.

- Temperature between -5 °C and +40 °C.
- Suitability for installation on the supply side of a socket or device for the protection against overloads and short circuits of the equipment and, at the same time, for protection of the users against contact voltages.

- The sensitivity (operating residual current) of 10mA and the suitability for operation also in the presence of non-sinusoidal fault currents (alternating currents mixed with unidirectional pulsating currents) allow the protection devices of the Élos range to be classified as “type A RCBOs” (identified by the symbol), particularly suitable for the protection of:
 - terminal uses in rooms where there is a greater risk of electrocution (bathrooms, showers, kitchens etc.), as prescribed by the CEI standards;
 - class I consumer power sockets with electronic circuits (computers and accessories, electronic scales, electronic typewriters, cash registers etc.). In domestic and service industry networks non-sinusoidal fault currents are often present because of the use of electronic boards in domestic appliances.
- The electromagnetic part of the circuit-breakers guarantees protection against overloads and short circuits; the residual current part of the devices, for current values of 10mA, guarantees protection of persons against the contact voltages.
- Closing the circuit: manually press the lever of the circuit breaker at the “I” symbol.
- Opening the circuit:
 - manually, by pressing the lever of the circuit-breaker near the “0” symbol or the yellow test button (test);
 - automatically, due to thermal (overload), magnetic (short-circuit) or residual current (earth fault current) tripping.
- The device must not be used as a control breaker.
- To check that the circuit breaker is installed and behaving correctly, the yellow test button (test) must be pressed every month. If the device is correctly installed and powered, the circuit breaker trips; if it does not, you must immediately inform the installation technician because safety will be compromised. After the test, you need to press the main key near the “I” symbol in order to reset the circuit breaker.
- Thermomagnetic tripping with characteristic “C” (see the current-time tripping diagram provided below).
- Double-pole operation with one protected pole + N, type A for alternated fault currents and unidirectional pushbuttons.
- Operating residual current (sensitivity) $I_{\Delta n}$ 10mA; the circuit breaker must be connected according to the electrical ciao Angelo, come va? tutto bene? spero di sì. Finalmente mi sono fatta un nuovo indirizzo di posta elettronica, dopo che ho perso la password della vecchia...

Élos - Technical details

Protection devices

Functions

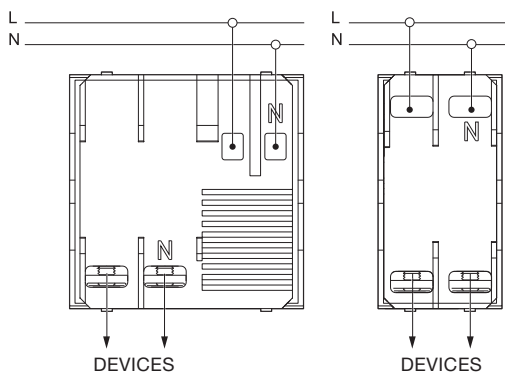
- Green front LED for signalling normal operation: presence of line voltage and closed circuit.
- Internal temperature checking: the circuit breaker automatically operates the opening of the circuit as soon as the safety threshold is exceeded.
- Self-test function to check the electrical continuity of the internal residual current circuit (in the absence of continuity the circuit-breaker will open).
- Opening the circuit if voltages occur higher than the predefined threshold at the circuit-breaker input (for example, in 380V~ three-phase systems the circuit-breaker prevents an erroneous “line-to line” connections, instead of “line-to-neutral”).

Characteristics

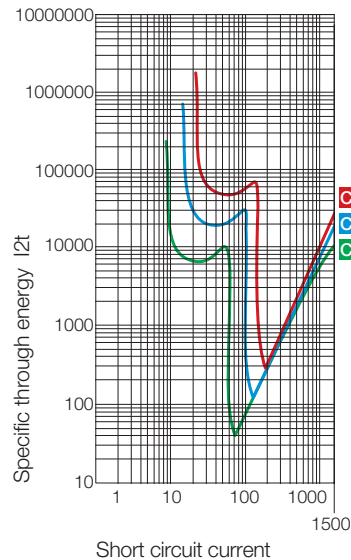
- Main lever operated control part: “I” symbol (closed circuit); “O” symbol (open circuit).
- Front LED for signalling the presence of line voltage and closed circuit.
- Yellow test button (test) for checking that the device is functioning properly.
- Terminals protected with captive screws for clamping two conductors up to 4 mm² each.
- Construction of the thermo magnetic part as prescribed by Standards EN 60898 and IEC 60898
- Construction of the residual current part according to Standards EN 61009 and IEC 61009.
- Power supply voltage: 120-230V~ ±10% 50-60Hz.

The supply line can be connected to either the upper or the lower terminals of the circuit breaker, which must be installed downstream of a general residual current circuit breaker (Standard CEI 64-8/5, paragraph 532.2.2.2). The line voltage determines operation (Standard IEC 1009-1, paragraph 4.1.2).

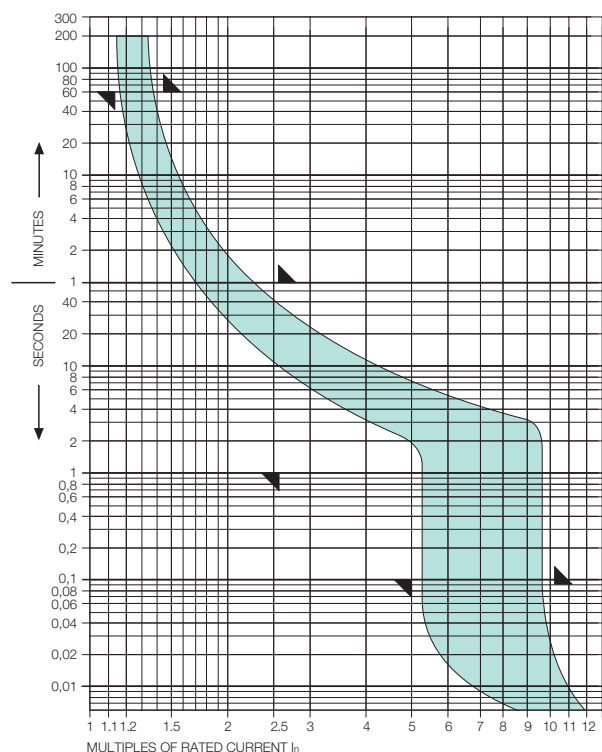
Wiring diagram



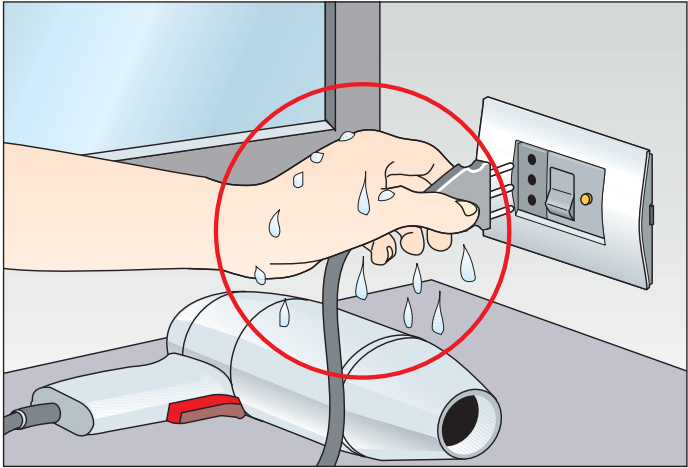
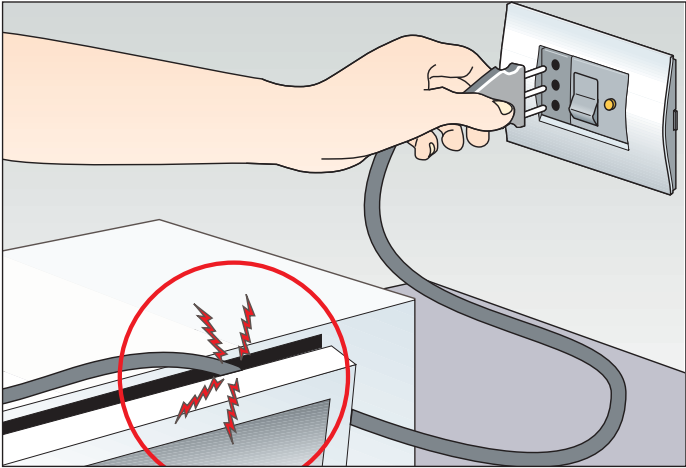
Characteristic curves



Current-time tripping diagrams for circuit-breakers of the Élos range



Examples of application



4

Technical specifications

Type of circuit breaker	MCB	RCD
Rated voltage	230V	230V
Rated frequency	50 ÷ 60Hz	50 ÷ 60Hz
Rated residual current	-	10mA or 30mA
Short-circuit breaking capacity	6A 1500A 10A 3000A 16A 3000A	6A 1500A 10A 3000A 16A 3000A
Rated currents	6 -10 -16A	6 -10 -16A
Number of poles	1P + N	1P + N
Tripping characteristic		
- Overcurrent protection	Type C	Tipo C
- Limitation class	3	3
- Residual current protection	-	Class A

Reference standards

Thermomagnetic: EN 60898-1 - Differential: IEC 61009-1

Élos - Technical details

Signalling devices

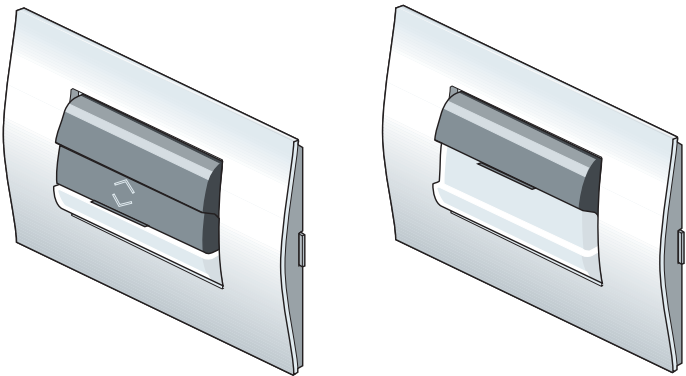
Light signals

Description	Code
Opal steplight lamp with adjustable light beam, 12/24V, with connector for torpedoing lamps	2CSE1316EL

Components

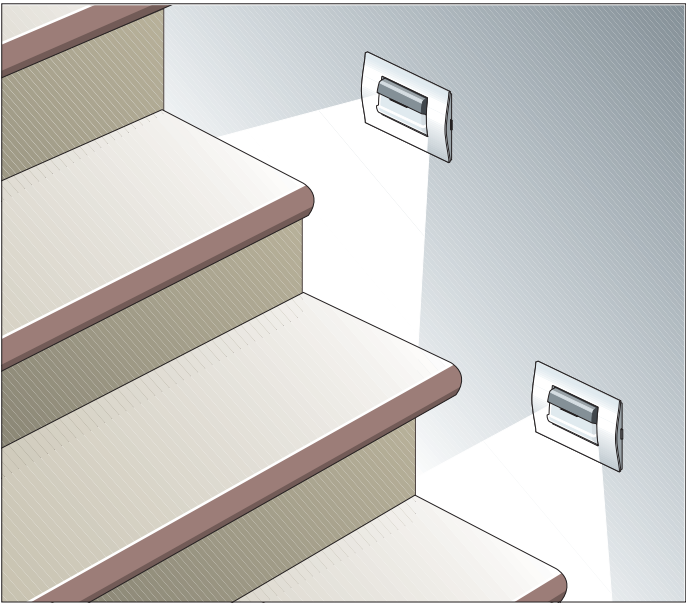


Adjustment of the speaker



Recommended for the lighting of transit areas in residential environments (corridors, stairs), with the possibility of adjusting the light beam using the appropriate cover. It accepts S6x36 12V or 24V torpedo lamps. It is provided without a lamp.

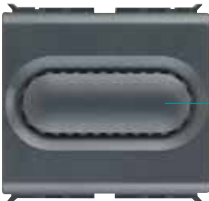
Examples of application



Bells and buzzers

Description	Code
Bell, 12V, 50Hz, 8VA, sound intensity 80 dB/1 m	2CSE1317EL
Bell, 230V, 50Hz, 8VA, sound intensity 80 dB/1 m	2CSE1318EL
Bell/buzzer, 12V - 50/60Hz, sound intensity: buzzer 75 dB/1 m, bell 70 dB/1 m	2CSE1319EL
Bell/buzzer, 230V - 50/60Hz, buzzer sound intensity 75 dB/1 m, bell 70 dB/1 m	2CSE1320EL
Buzzer, 12V - 50Hz, 8VA, sound intensity 70 dB/1 m	2CSE1321EL
Buzzer, 230V - 50Hz, 8VA, sound intensity 70 dB/1 m	2CSE1322EL

Components



Acoustic signalling via loudspeaker

The multi-function acoustic signalers are suggested for implementing two clearly distinguishable signals (for example, called by the bathroom cord pull button and the entrance bell).

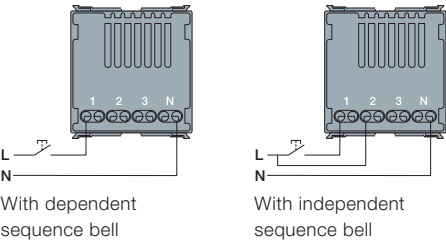
The wiring diagram can be modified in order to obtain a three-tone sound (mi, fa, so) or a buzz.

It is also possible to establish whether the duration of the two types of sounds depends on time for which the pushbutton is pressed (dependent sequence) or if the note is emitted once each time the command is activated (independent sequence).

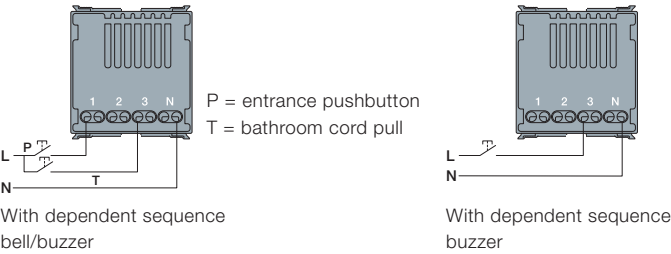
The signal function acoustic signalers - buzzers and bells - are produced in versions powered by either 12V or 230V.

Wiring diagrams

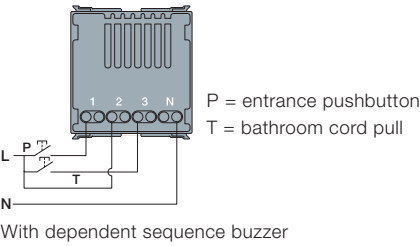
Entrance bell



Buzzer for bathroom alarm



Bathroom alarm + entrance bell



Technical specifications

Power supply voltage	2CSE1319EL	12V - 50/60Hz
	2CSE1320EL	230V - 50/60Hz
Sound intensity	Buzzer	75 dB a 1 m
	Bell	70 dB a 1 m
Consumption	0.1 ÷ 2 VA	

Reference standards

EN 60065, EN 50081-1, EN 50082-1.

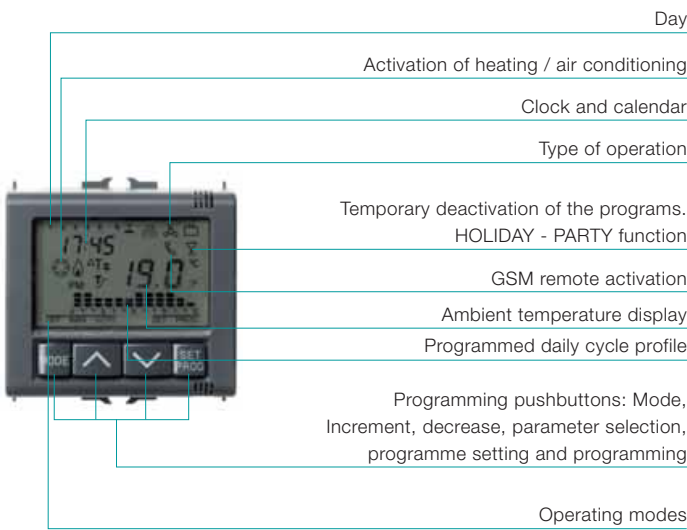
Élos - Technical details

Safety and comfort devices

Thermostats and time-programmed thermostats

Description	Code
Summer/winter electronic time-programmed thermostat, with daily and weekly programming and 3 temperature levels that can be set. Potential-free relay output contact 1 NO/NC, 5A (AC1)/2A (AC15) - 250V~	2CSE1219EL

Components



The time-programmed thermostat makes it possible to automatically control the temperature and the timing within the installation environment on a weekly basis, in combination with the heating or air conditioning systems.

- Power supply at line voltage
- Relay output contact to control the boiler, air conditioner, zone solenoid valve, etc
- Backlit white LCD display (backlighting is activated whenever one of the keys is pressed and is deactivated 5 second after the last key press)
- Programming on a weekly basis (a program for 7 days with time profiles independently configurable for each day)
- Setting of time profiles on a 24-hour basis with 3 different temperature levels (T1, T2, T3) and display of the profile
- Programming of the time profile with a resolution of 15 minutes without limits on the number daily variations

Mylos, Élos, Chiara

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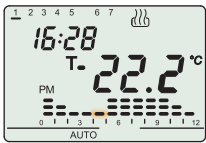
Mylos, Élos, Chiara

Operating modes

The time-programmed thermostat provides three different operating modes:

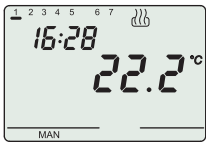
- AUTOMATIC
- MANUAL
- OFF/ANTI-FREEZE / HIGH TEMPERATURE PROTECTION

To switch from one mode to another use the MODE key.



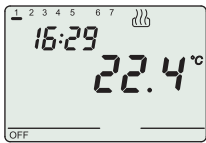
Automatic operation

In automatic operation, the time-programmed thermostat uses a program that can be set by the user, and which can also be differentiated for each day of the week. The text AUTO, the measured ambient temperature, and the set point symbol for the current quarter hour appear on the display. In the hourly profile, the column relating to the current hour flashes showing the active set point.



Manual operation

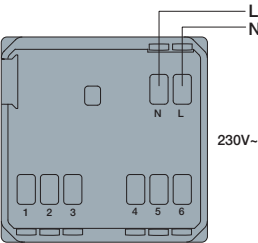
In manual operation, the time-programmed thermostat uses a temperature set point permanently, that it can be set as desired using the keys **ΔV**. The text MAN and the measured ambient temperature appear on the display.



Anti-freeze and protection operation

The anti-freeze/high temperature protection functions are active, respectively, in the heating and air conditioning modes. In both these cases, the time-programmed thermostat uses the anti-freeze/high temperature protection set point that has been set. The text OFF and the measured ambient temperature appear on the display.

Wiring diagrams



Wiring terminals

Power suppl

L - Phase
N - Neutral

Output relay

1 - NO contact
2 - NC contact
3 - Common

Serial line

4 - TX (outgoing data)
5 - GND (common)
6 - RX (incoming data)

Technical specifications

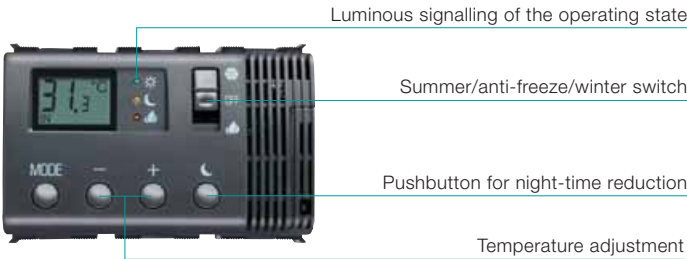
Power supply voltage	230V~ 50/60Hz
Backup battery	ML1220 3V in the case of a power cut
Output contact	with potential-free relay 1 NO/NC 5A (AC1)/2A (AC15), 250V~
Interval between two measurement cycles	1 minute
Unit of measurement	°C - °F
Forcing	possible manually
Temperature values that can be set	+5°C/+40°C
Anti-freeze temperature	adjustable from +2°C/+7°C
Tolerance	± 0.5°C to 20°C
Max num. of temperature changes	4 per hour
Time programming resolution	15 minutes
Temperature set point resolution	0.1°C
Temperature probe	NTC, 100kΩ a 25°C
Dimensions	2 Élos modules

Élos - Technical details

Safety and comfort devices

Description	Code
Summer/winter electronic thermostat, with input for night-time reduction remote control and 3 temperature levels that can be set. Output contact NO, 5A (AC1)/2A (AC15) - 250V~	2CSE1202EL

Components



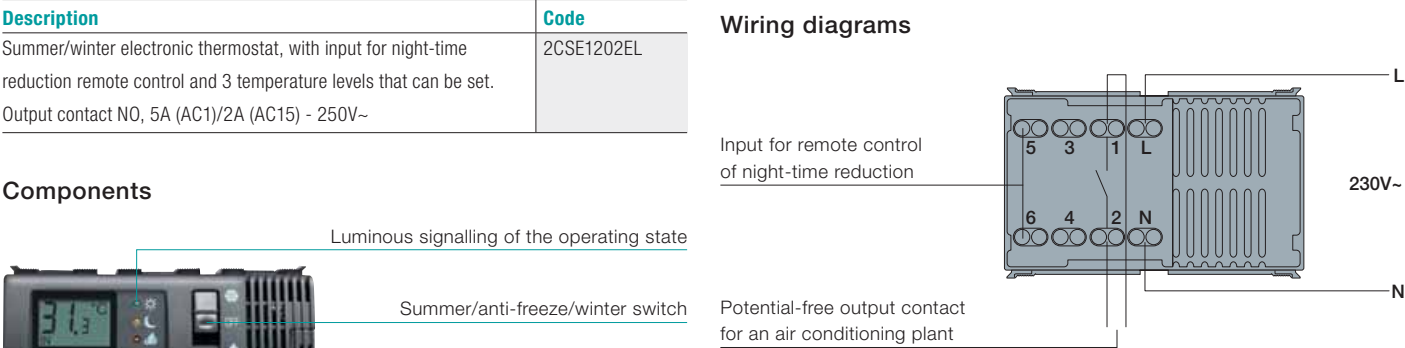
The electronic thermostats of the Élos series are equipped with a summer/winter change-over switch for heating and air conditioning systems.

Characteristics

- Display of the ambient temperature and the set temperature (SET) on easy to read display.
- Possibility to reduce the winter night-time temperature by 5°C and to increase the summer night-time temperature by 4°C compared with the set temperatures; the night-time temperature can be activated remotely using the pushbutton on the front of the device or through the remote control (not supplied by ABB).
- Anti-freeze function (+6 °C).

Instructions for installation and operation

The electronic thermostats of the Élos range can be used in an air conditioning plant in order to control the refrigeration compressor or in a thermal plant in order to control the burners, pumps or valves. A relay has to be used in the case of loads with absorption higher than the specifications of the output contact.



Technical specifications	
Power supply voltage	230V - 50/60Hz
Charge reserve	30 days (rechargeable)
Output contacts	1 NO, 5A (AC1) / 2A (AC15) - 250V~
Temperature values that can be set	+ 5°C / + 40°C
Tolerance	± 0.5°C between + 10 and +35°C
Measurement range with external probe*	- 20°C / + 45°C

* Temperatures below -9.9°C are displayed without decimals.

Reference standards

EN 60730-1, EN 60730-2-9, EN 61000-3-2, EN 61000-3-3, EN 55014, EN 55104.

Programmers and timers

Description	Code
Daily/weekly electronic programmer, 1 channel, overall dimensions 2 Élos modules, 1 NO/NC changeover output contact, 8A (AC1)/4A (AC15) 230V~ - 50/60 Hz	2CSE1223EL

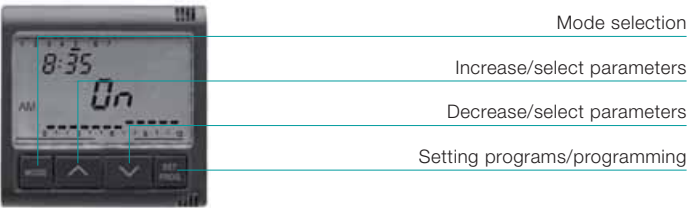
One-channel electronic programmer (daily or weekly cycle) to control and time loads of various nature.
Front panel programming using 4 keys:

- 1) MODE key to select the mode;
- 2) “up arrow” key to increase/select parameters;
- 3) “down arrow” key to decrease/select parameters;
- 4) SET/PROG key to set programs/perform programming.

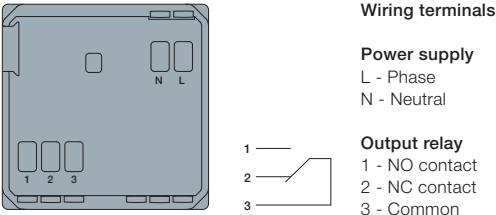
The backlit LCD display signals:

- profile of the daily program;
- state of the relay (ON/OFF);
- day, time and operating mode.

Components

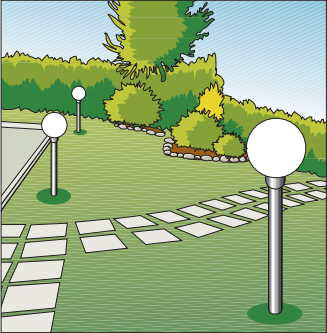


Wiring diagrams

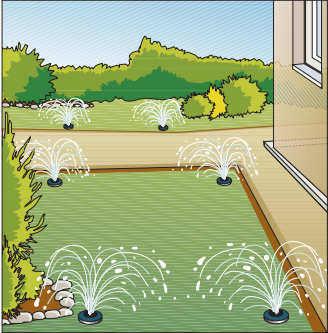


Examples of application

External lighting



Irrigation system



Technical specifications

Operating modes	Automatic, manual, off.
Time programming resolution	5 minutes
Max num. of relay switching operations that can be set	12 per hour
Output contact	With relay, potential-free 1 NO/NC 8A (AC1)/4A (AC15), 250Vac
Power supply	Mains (230V ac) – normal operation Rechargeable battery (ML1220) – absence of mains network
Dimensions	2 Élos modules

Potential-free relay contacts (not suitable for directly controlling fluorescent lamps with a correction capacitor).

Reference standards

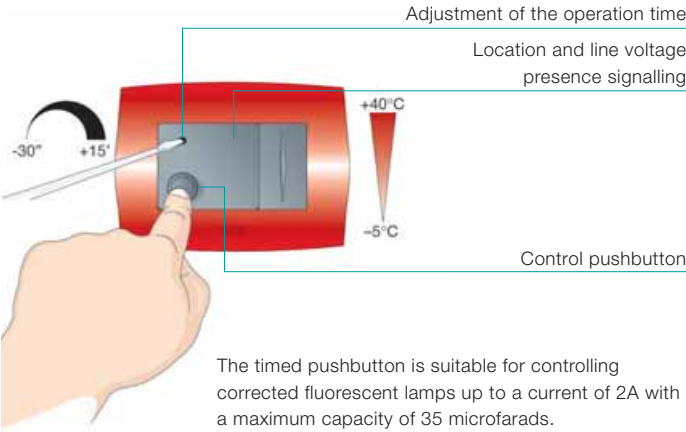
EN 50082-1, EN 50081-1, EN 60730-1, EN 60730-2-7.

Élos - Technical details

Safety and comfort devices

Description	Code
Electronic timed button with input for remote control, 1 output contact NO, 10A (AC1)/5A (AC15) - 250V~	2CSE1204EL

Components



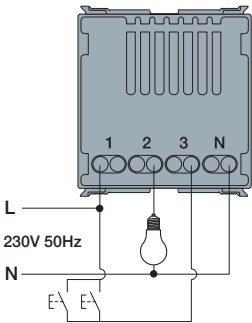
Multi-function timer with local command pushbutton that allows automatic delayed switch-off of extractor fans, air agitators, cooker hoods, lamps, fans etc.

Wiring diagrams

Examples of application in the residential and service sector:

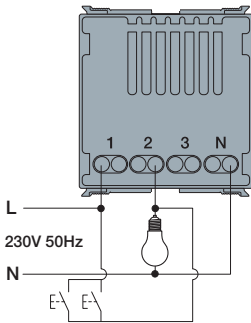
- entrance halls and entrances, stair lights, service rooms (diagram with pushbuttons);
- extractor fans for bathrooms without windows (diagrams with switch and two-way switch).

With pushbuttons



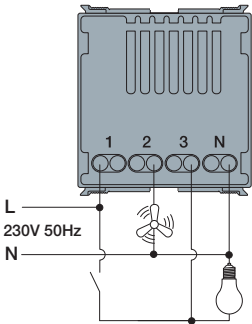
Possibility to reset the delay with lamps still lit.

With pushbuttons



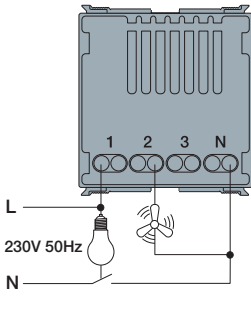
Without delay reset.

With circuit-breaker



Delay in stopping the extractor fan after the lamp is switched off (the extractor fan starts when the lamp is switched on).

With two-way switch



Delayed switch-on and switch-off of the extractor fan take place after the lamp is switched off.

Technical specifications








Power supply voltage	230V - 50/60Hz
Output contacts (relay)	1 NO, 10A (AC1) / 5A (AC15) - 250V~
Adjustment of operation time	30 s / 15 min.

Reference standards

EN 60669-1, EN 60669-2-3.

Dimmer

Loads that can be controlled with the dimmer

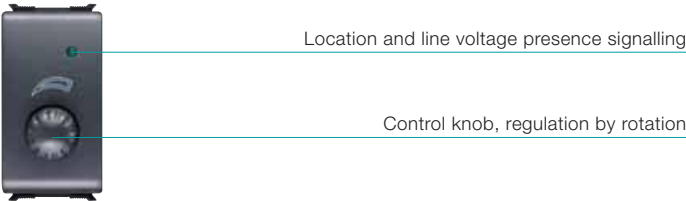
Dimmer type		Loads						
Dimmer code	Description	Fluorescent or halogen lamps 230V 	Fluorescent lamps 	Toroidal transformers 	Electronic transformers 	Electro-mechanical transformers 	Drills 	Air agitators 
2CSE1205EL	Electronic dimmer with rotary control for resistive loads, 100-500W, 230V~ - 50/60Hz	YES	NO	NO	NO	NO	NO	NO
2CSE1207EL	Electronic dimmer with rotary control and with two-way switch for resistive and inductive loads, 40-300W (40-300VA), 230V~ - 50/60Hz	YES	NO	YES	NO	YES	NO	NO
2CSE1206EL	Electronic dimmer with pushbutton control for resistive and inductive loads, 60-500W (60-500VA), 230V~ - 50/60Hz	YES	NO	YES	NO	YES	NO	NO
2CSE1208EL	Electronic dimmer with pushbutton control for resistive-inductive loads and electronic power supplies for very low voltage halogen lamps, 25-180W (25-180VA), 230V~ - 50/60Hz	YES	NO	YES	YES	YES	NO	NO
2CSE1209EL	Electronic dimmer with pushbutton control for resistive-inductive loads and electronic power supplies for very low voltage halogen lamps, 25-300W (25-250VA), 230V~ - 50/60Hz	YES	NO	YES	YES	YES	NO	NO

Élos - Technical details

Safety and comfort devices

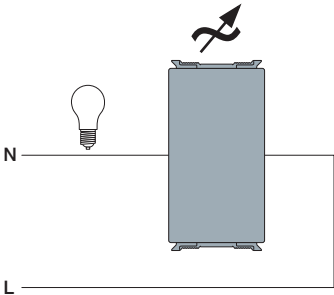
Description	Code
Electronic dimmer with rotary control for resistive loads, 100-500W, 230V~ - 50/60Hz	2CSE1205EL

Components

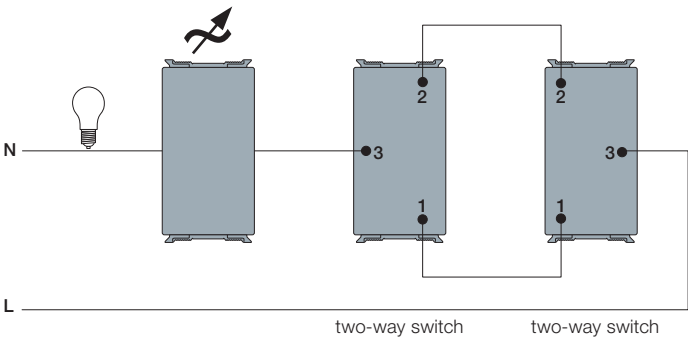


Wiring diagrams

Adjustment from 1 point



Adjustment from 1 point (1 dimmer) and control from another 2 points (2 two-way switches)



Technical specifications	
Rated voltage	230V - 50/60Hz
Resistive load power	40 - 300W
Inductive load power	40 - 300VA
Technology	TRIAC
Rated voltage at 50/60Hz	230V
Adjustable power	100 - 500W
Adjustable load	filament and halogen lamps

Reference standards

EN 60669-1, EN 60669-2-1, EN 50081-1, EN 55104.

Description	Code
Electronic dimmer with rotary control and with two-way switch for resistive and inductive loads, 40-300W (40-300VA), 230V~ - 50/60Hz	2CSE1207EL

Components



Location and line voltage presence signalling

Control knob:
- ON/OFF with touch
- regulation by rotation

The electronic dimmers with rotating control for resistive and inductive loads of the Élos range are equipped with a two-way switch that makes it possible to switch connected appliances on and off, from a second point (using the two-way switch) or from several points (by means of intermediate switches).

Operation

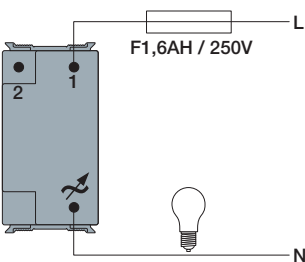
Pressing the knob of the device activates switching on and off, while rotation of the knob adjusts the brightness level. After having set the desired lighting level, pressing the knob will switch off the source; pressing it again will turn it back on, again according to the lighting level set.

Area of application

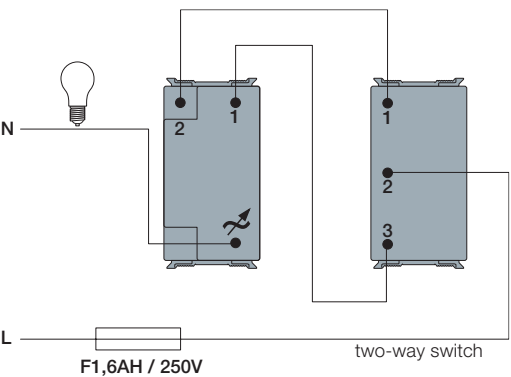
- In the residential context: adjustment of light sources..
- In existing installations: possibility to replace two-way switches without modifying the original circuit.
Dimmers for resistive and inductive loads of the Élos range must be protected by a fuse with high breaking capacity.

Wiring diagrams

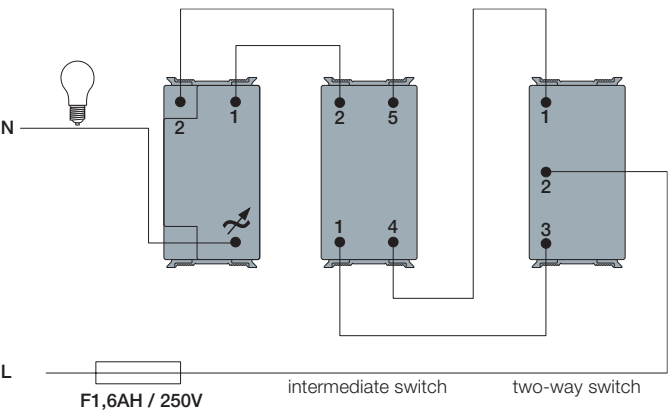
Lighting control from one point



Lighting control from 2 points



Lighting control from 3 or more points



Dimmers for resistive and inductive loads of the Élos range must be protected by a fuse with high breaking capacity.

Technical specifications

Rated voltage	110V - 50/60Hz
Resistive load power	20 - 150W
Inductive load power	20 - 150VA
Technology	TRIAC
Rated voltage at 50/60Hz	110V
Adjustable power	50 - 250W
Adjustable load	filament and halogen lamps toroidal and electromechanical transformers

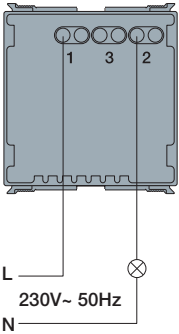
Reference standards

EN 60669-1, EN 60669-2-1, EN 50081-1, EN 55104.

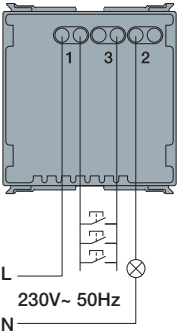
Wiring diagrams

Dimmer 2CSE1206EL

Control from one point

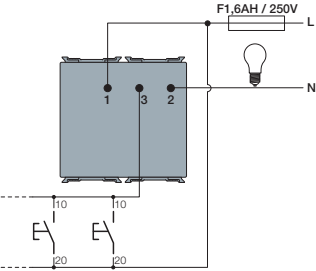


Control from multiple points

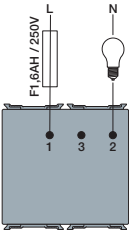


Dimmer 2CSE1209EL

Lighting control and adjustment from multiple points with NO pushbuttons



Lighting control from one point



Technical specifications	2CSE1209EL	2CSE1206EL
Technology	based on transistors (IGBT)	TRIAC
Power supply voltage	230V - 50Hz	230V - 50/60Hz
Adjustable power	25 ÷ 300W* (2CSE1209EL) 25 ÷ 180W (2CSE1208EL)	60 ÷ 500W
Adjustable load:		
filament and halogen lamps	■	■
toroidal transformers	■	■
lamellar transformers		■
electronic transformers	■	
protection	electronic protection against overload and/or short circuit, resettable	built-in quick fuse ø 5 x 20 mm 2.5A

* For inductive loads The adjustable power is 25 - 250VA.

Reference standards

EN 60669-1, EN 60669-2-1, EN 50081-1, EN 55104.

Élos - Technical details

Safety and comfort devices

Description	Code
Electronic dimmer with pushbutton control for resistive-inductive loads and electronic power supplies for very low voltage halogen lamps, 25-180W (25-180VA), 230V~ - 50/60Hz	2CSE1208EL

Components



Luminous location signalling and adjustment level signalling

On/off and load adjustment pushbutton

The electronic dimmers with pushbutton control for resistive and inductive loads of the Élos range allow control and adjustment from multiple points, through single-pole pushbuttons with NO contact.

Switching on and off are performed by pressing the pushbutton briefly according to the pre-defined adjustment level (intensity memory); for adjustment the button must be pressed and held down.

Operation

To set the appropriate lighting level, press the pushbutton until you arrive at the desired level. Pressing the pushbutton briefly again will switch off the source; pressing it again will switch the source on again, at the set lighting level.

Area of application

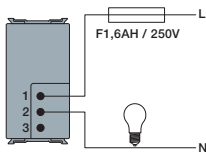
- In the residential context: adjustment of light sources.
- In a services context (community environments, hotel rooms, conference rooms etc.): adjustment of light sources.
- In existing installations: possibility to replace two-way switches without modifying the original circuit.

Characteristics

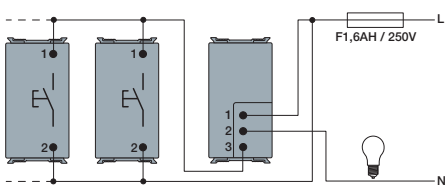
- Possibility to control electronic power supplies and reduced loads.
- Storage and automatic search for the maximum adjustment level.
- Warning light to signal the protection adjustment and tripping level (flashing).
- Electronic auto-protection in the case of overloads or short circuits.

Wiring diagrams

Lighting control from one point



Lighting control and adjustment from multiple points with NO pushbuttons



Technical specifications	2CSE1208EL
Technology	based on transistors (IGBT)
Power supply voltage	230V - 50Hz
Adjustable power	25 ÷ 300W* (2CSE1209EL) 25 ÷ 180W (2CSE1208EL)
Adjustable load:	filament and halogen lamps
	toroidal transformers
	lamellar transformers
	electronic transformers
protection	electronic protection against overload and/or short circuit, resettable

* For inductive loads The adjustable power is 25 - 250VA.

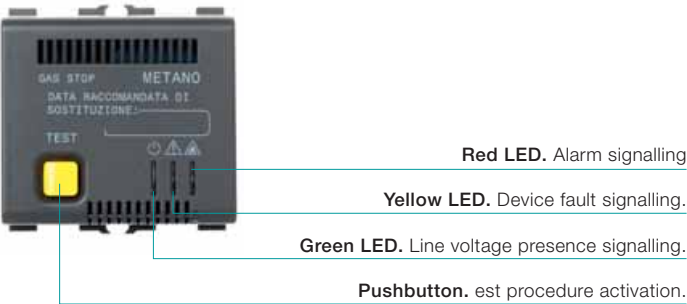
Reference standards

EN 60669-1, EN 60669-2-1, EN 50081-1, EN 55104.

Gas detectors

Description	Code
Natural gas presence electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact 10A (AC1)/5A (AC15) - 250V~. 12V~ power supply with code 2CSE1222EL	2CSE1220EL

Components



The gas detectors of the Élos range are suitable for detection, in a domestic environment, of concentrations of natural gas that are abnormal but well below the hazard threshold. These detectors are equipped with:

- sensor with tin dioxide semiconductor
- output relay with hermetic contacts for commanding the gas interception solenoid valve
- acoustic/luminous alarm signalling.

The devices work only in the presence of line voltage. In the event of no line voltage or during installation, they delay their own operation by approximately one minute in order allowing stabilization of the electronic components.

The tin dioxide semiconductor sensor reaches full operation 10 days after it has been powered.

Operation

green

yellow

When switched on for the first time, the detector performs the initialization phase, lasting approximately 60 seconds, during which the device is not operational.

green

After initialization is completed, the detector is ready for normal operation.

green

yellow

In the of a fault on the detector sensor, the green LED and the yellow LED light up permanently.

green

red

Device in alarm status. Immediately, as soon as the alarm threshold is exceeded, the green and red LEDs light up and the acoustic signal is activated. After 20 seconds the relay switches (solenoid valve command).

verde

giallo

When the alarm terminates, the detector returns automatically to the its normal operation status.

- CAUTION: In the event of an alarm:**
- 1 - Extinguish all naked flames.
 - 2 - Turn off the gas meter tap.
 - 3 - Do not switch lights on or off; do not to operate electrically powered appliances or devices.
 - 4 - Open doors and windows to increase the ventilation of the environment.

If the alarm stops, you must identify the cause that provoked it and take the necessary actions.

If the alarm continues and the cause of the presence of gas cannot be established or eliminated, abandon the building and notify the emergency service from outside.a.

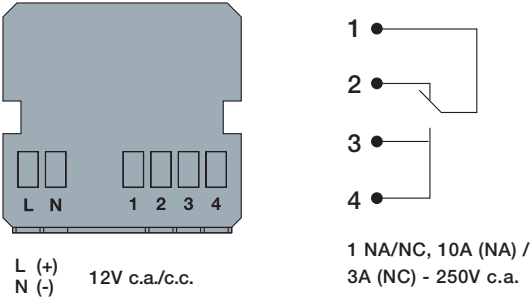
CAUTION: it is possible that a smell of gas may be perceived before the apparatus generates the alarm.

Élos - Technical details

Safety and comfort devices

Description of the terminals

The detector can be connected to the network 230V - 50 Hz (if required) through a 230V - 12V DC supply module (2CSE1222EL).



Potential-free contact to be used to interrupt the flow of gas via a solenoid valve with manual reset (NO or NC). Additional NO contact for local and/or remote signalling function. The installation and electrical connection of the devices and equipment must be performed by qualified personnel and in compliance with the standards and laws in force. The manufacturer does not assume any responsibility in relation to the use of products that must conform to particular environmental and/or installation regulations, the responsibility for which remains with the installer. The examples provided in this documentation are indicative; for connection operations you must strictly adhere to the laws and regulations in force.

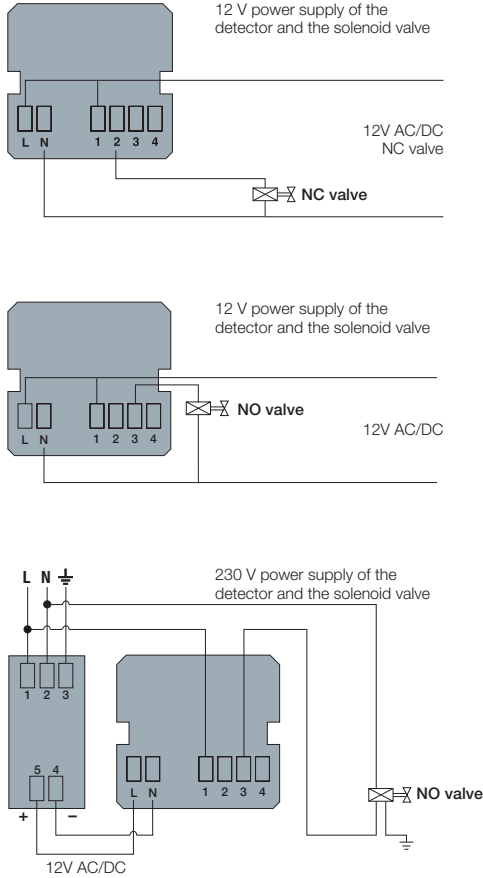
Caution: Before installing the product, deactivate the line voltage.

Technical specifications	Sensor CH ₄
Power supply	12V AC/DC +10/-15%
Power absorbed	2VA
Alarm threshold	9% LIE (lower limit of explosiveness)
Acoustic alarm	piezoelectric acoustic signal for alarm, 85dB at 1 m
Relay output	one change-over contact 1 NO/NC, 10A (NA) / 3A (NC) - 250V ~
Operating temperature	from +41.00°F to +40°C
Relative ambient humidity	+30 ÷ 90% without condensation
Mounting	flush-mounted on ÉLOS support
Dimensions	IP40 (inserted in the embedded enclosure)
Duration	the installed detector has a life time of 5 years from the moment that it is powered up

Reference standards

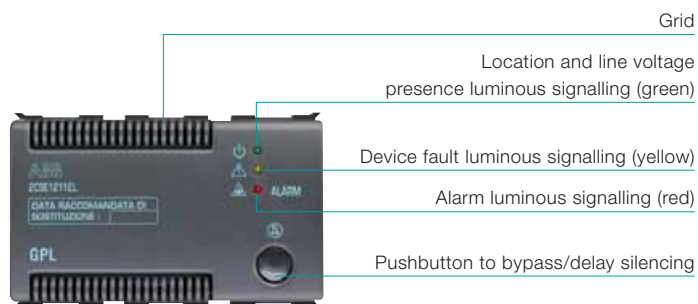
EN 50081-1; EN 50082-1; CEI 216-8

Wiring diagrams for natural gas sensor



Description	Code
LPG gas presence electronic detector with acoustic and luminous signal, relay output, 1 NO/NC change-over contact 10A (AC1)/5A (AC15) - 250V~. Power supply 230V~ - 50Hz	2CSE1211EL

Components



The LPG presence detectors of the Élos range are equipped with:

- sensor with tin dioxide semiconductor;
- output relay with hermetic contacts for controlling the gas interception solenoid valve.
- microprocessor-based logic and self-diagnosis, with thermal compensation;
- luminous pre-alarm system and acoustic-luminous alarm signal.

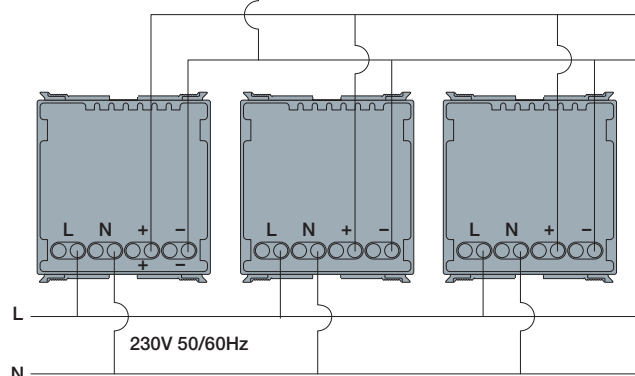
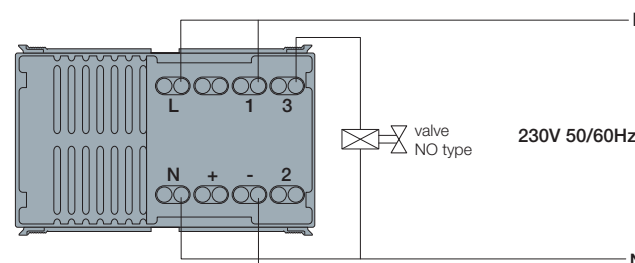
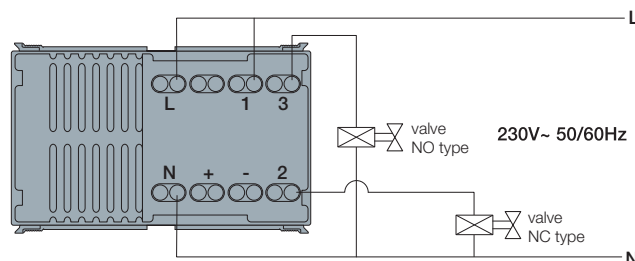
The devices work only in the presence of line voltage. In the event of no line voltage or during installation, they delay their own operation by approximately one minute in order allowing stabilization of the electronic components.

Instructions for operation

Pressing the pushbutton:

- in normal conditions, interrupts the operation of the device, putting it into standby state (reactivation takes place automatically after ten minutes);
- in alarm conditions, it interrupts the acoustic signal momentarily (the function is restored automatically after twenty seconds).

Wiring diagrams for LPG sensor



Élos - Technical details

Safety and comfort devices

4

Technical specifications	LPG sensor
Power supply	230V~ +10/-15% 50/60Hz
Power absorbed	4VA
Prealarm threshold	6% LIE (lower limit of explosiveness) isobutane
Alarm threshold	12% LIE (lower limit of explosiveness) isobutane
Calibration	electronic, compensated thermally on non-volatile memory
Acoustic alarm	piezoelectric acoustic signal for alarm, 85dB at 1 m
Relay output	piezoelectric acoustic signal for alarm, 85dB at 1 m
Auxiliary output for signal repeater	through polarised terminals, 240V DC max., 100mA DC max.
Operating temperature	from -5°C to +40°C
Relative ambient humidity	+30÷90% without condensation
Enclosure	plastic material, self-extinguishing UL94 V1
Protection class of the detector	IP40 (inserted in the embedded enclosure)
Duration of the sensor	five years from the moment of installation and activation (the sensor reaches full operation 10 days after being powered up)

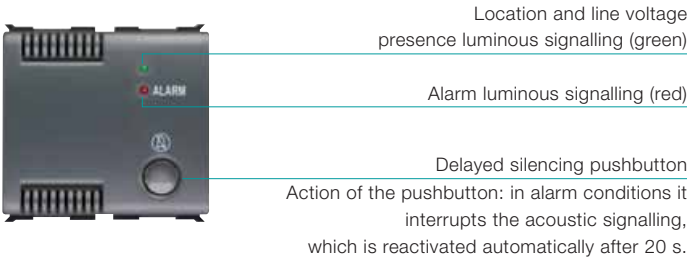
Reference standards

CEI 116-1, UNI-CEI 70028, DM 30-5-95, EN 50081-1, EN 50082-1.

Signal repeater (only for LPG gas detectors)

Description	Code
Acoustic and luminous signal repeater with silencer pushbutton, 230V~ - 50/60Hz	2CSE1212EL

Components

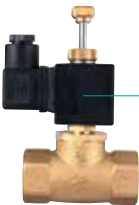


Technical specifications	
Power supply voltage	230V~ - 50/60Hz
Alarm sound level	70 dB at 1 m
Input for communication with the detectors	polarised terminals

Reference standards

EN 60065, EN 50081-1, EN 50082-1.

Description	Code
Solenoid valve for gas systems with manual reset, normally open, 230V~ - 50Hz	2CSE1213EL



Solenoid valve with manual reset

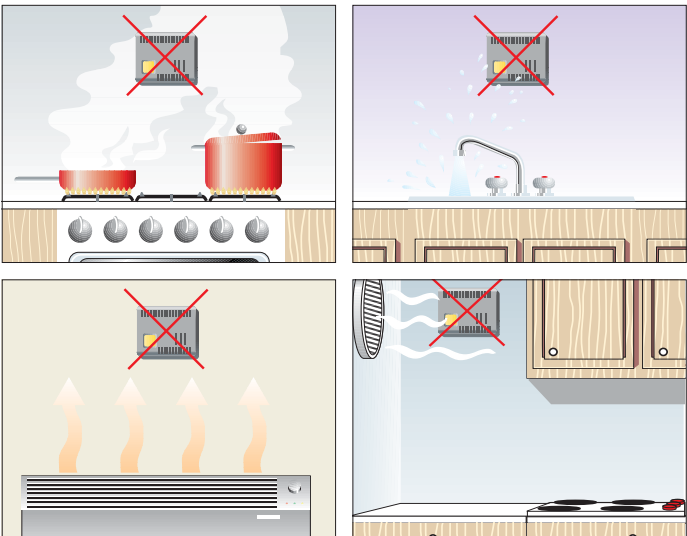
The manually resettable solenoid valve of the Élos range for gas systems is a valve of the type normally open. If the coil is energised, the closing device is tripped in order to interrupt the flow of gas.

The electric impulse to the coil can be sent by a gas leak detector, by a safety thermostat or by other devices.

If the valve is activated, you need to verify the cause and above all make sure that there are no gas leaks in progress; the solenoid valve can then be reset manually by raising the knob above the coil. Proper operation of the device and safety are not compromised by possible buzzing of the solenoid valve when it is energised: this is an operational characteristic of the valve when supplied with alternating current used appropriately for the acoustic signalling of the system alarm.

Examples of application

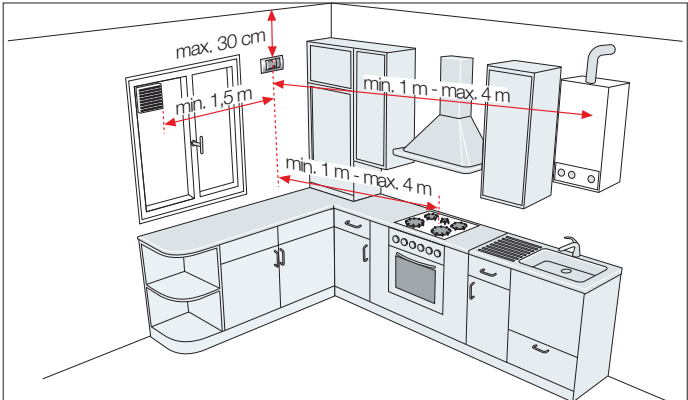
The installation of the gas detector does not exonerate users from observance of all the rules regarding the specifications, installation and use of gas powered equipment, the ventilation of rooms and the release of combustion products prescribed by the regulations that implement Article 3 of Italian Law 1083/71 and by legal requirements.



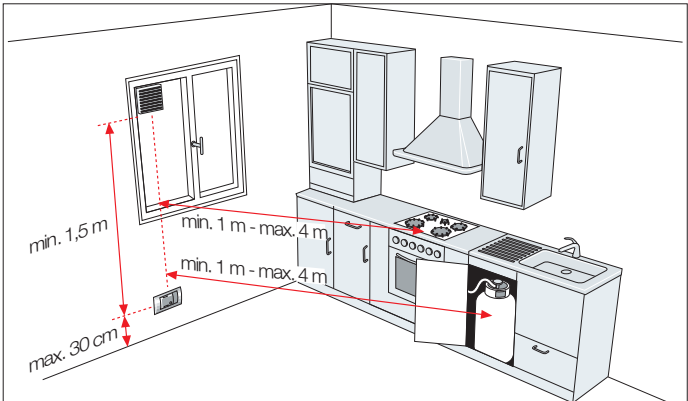
Installation Instructions

The installation of the detector must be carried out exclusively by authorised technicians carefully observing the information provided below. The IP40 protection class refers exclusively to the apparatus in normal installation conditions.

Caution! Do not install the detector near cooking equipment, sinks, extractor fans and wherever environmental conditions could compromise its proper operation.



Natural gas



Gas GPL

Technical specifications	
Power supply	230V~ - 5% +10% 50Hz
Power absorbed in service	14VA
Coil	class F, standard VDE 0580
Max. incoming pressure	500 mbar
Connectors	Rp 3/4" UNI-ISO 7/1
Ambient temperature limits	- 10°C / + 60°C
Electrical insulation	IP65
Positionable coil unit	0° - 360°

Élos - Technical details

Safety and comfort devices

Emergency lighting

Description	Code
Removable anti-blackout light. Charge reserve equal to 4.5 h and recharge time equal to 10-20 h. To be combined with 230V~ plug sockets; particularly recommended for codes 2CSE1108EL and 2CSE1109EL.	2CSE1214EL

Functions

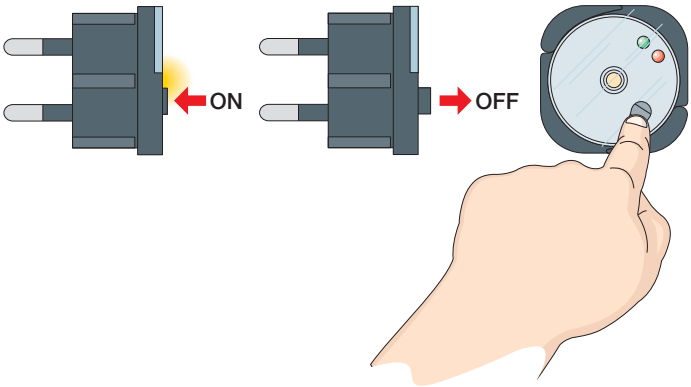
A light source is activated automatically whenever the line voltage is missing (blackout) thanks to rechargeable backup batteries.

- A light source is activated automatically whenever the line voltage is missing (blackout) thanks to rechargeable backup batteries.
- Long autonomy, 4.5 hours of continuous operation.
- Small dimensions - protrusion from the Schuko profile (only 8 mm).

On the front part there are two LEDs (one red and one green) that indicate the state of the lamp when it is powered:

- Red LED on, recharging in progress. In the event of a blackout the lamp will remain off (battery saving condition, used in the case of prolonged absence).
- Green LED on, recharging in progress. In the event of a blackout the lamp will light up and will switch off automatically when the network is restored.

The pushbutton on the front part allows you to switch from one condition to another.

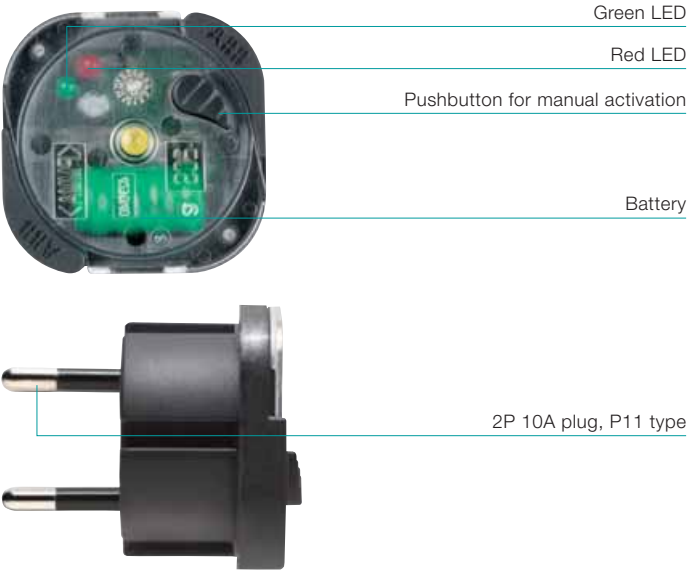


Technical specifications	
Plug	2P 10A
Center distance of the pins	19 mm
Ø of the pins	4 mm
Power supply	230V~50-60 Hz
Recharging time	10-20 hours
Useful battery life	4.5 hours

Reference standards

EN 60598-1, EN 60598-2

Components



The anti-blackout light is an automatic removable, rechargeable electronic lamp that can be inserted in any Schuko socket or Italian P11 standard 10A bivalent socket. Socket outlets particularly recommended for holding the lamp are the sockets of the Élos wiring accessories' range 2CSE1108EL and 2CSE1109EL, that allow the body of the lamp to be embedded in the socket, thus reducing the external dimensions to a minimum.

The device was designed to light up automatically in the event of a blackout (no voltage warning), or to be used as a portable lighting device, useful in order to guarantee visibility and facilitate maintenance operations and/or searching for faults in unlit environments.

Description	Code
Flush-mounted anti-blackout light, dimension 2 Élos modules, suitable for fixed or removable use Power supply voltage 230V - 50/60 Hz. Duration without mains supply 2h, recharge time 5h	2CSE1224EL

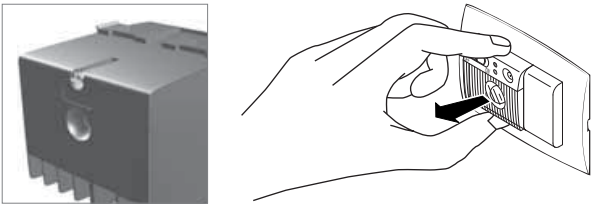
Components



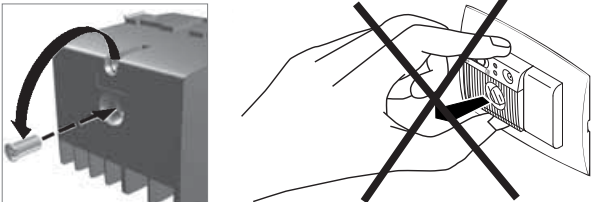
- Removable emergency lamp with the possibility to use it as an electrical torch.
 - Duration (after 36 hours recharging) of approximately 2h.
 - Possibility to turn off the emergency lamp using the front circuit-breaker.
- The product includes a battery for proper operation. If the battery is replaced, it must be sent for differential disposal in accordance with the local waste disposal regulations in force.

Installation Instructions

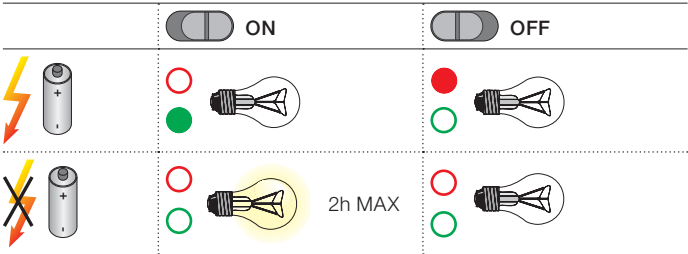
Installation for removable use



Installation for fixed use



Instructions for use



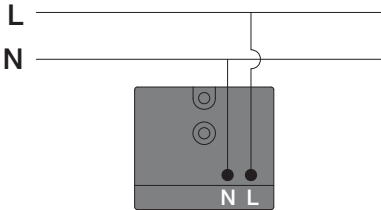
Key:

- Red LED off
- Green LED of
- Red LED on
- Green LED on

- Presence of line voltage
- Absence of line voltage

- Lamp on
- Lamp off

Wiring diagram



Technical specifications	
Power supply voltage	230 V - 50/60 Hz
Absorption	max 6 mA
Batteries	Ni-Mh (4.8V / 40mAh)
Lamp	White LED
Dimensions	2 Élos modules

Reference standards
 EN 60598-1, EN 60598-2

Élos - Technical details

Safety and comfort device

Other devices

Description	Code
IR motion detector with twilight threshold for control and adjustment of the operation time of lighting devices. Relay output NO 5A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50/60Hz.	2CSE1216EL

Components



Fresnel lens

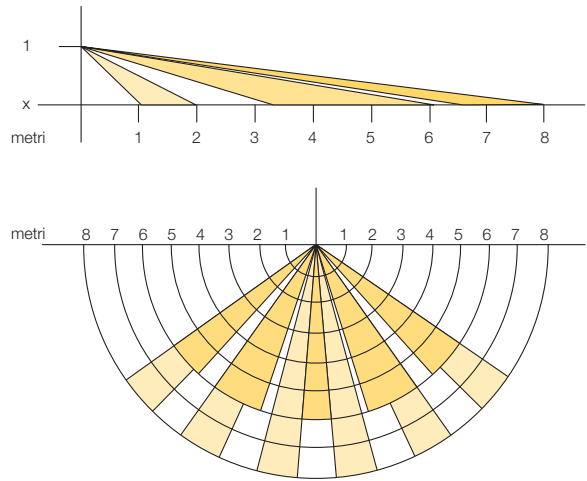
Adjustment of timing

Adjustment of the twilight tripping threshold

The infrared beam motion detector of the Élos range detects variations in heat, closing the contact of a relay according to the environmental light. When the movement stops, the contact is reopened automatically after a preset adjustable delay. To avoid it being activated when it is not necessary, the device incorporates a twilight sensor with an adjustable tripping threshold.

The apparatus is suitable for directly controlling small uncorrected fluorescent lamps or similar loads, while it is not suitable for fluorescent lamps with a correction capacitor.

Coverage area



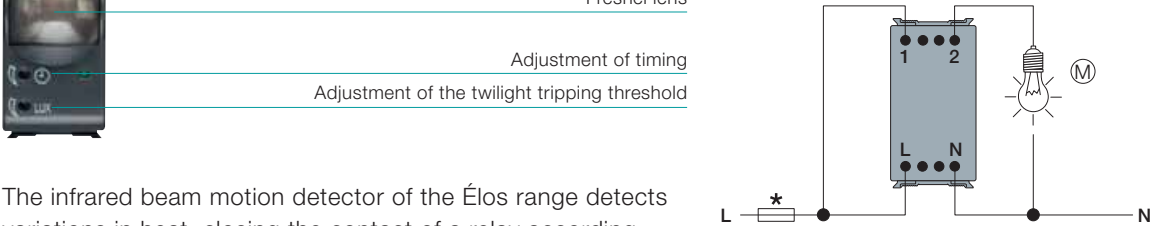
Area of application

- Operating mechanism for lighting in transit areas(stairs, showrooms, entrance halls and garages, corridors etc.)
- Whenever the operating mechanism needs to be subject to the presence of persons in the area.

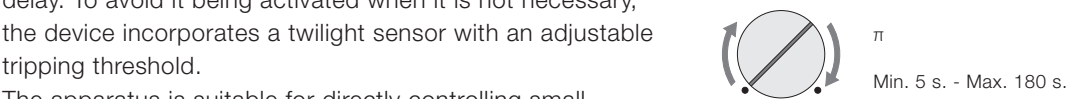
Examples of application



Wiring diagrams



Contact closing time



The detector trips when a person passes in dark or dusk conditions



The detector trips when a person passes in light conditions



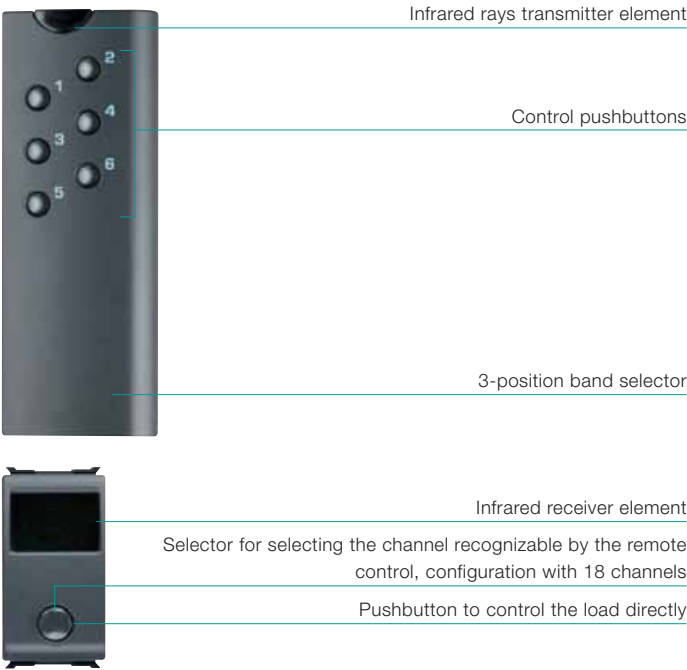
Technical specifications	
Power supply voltage	230V - 50/60Hz
Adjustment of the luminous threshold	5 lux/300 lux
Adjustment of operation time	5 s/180 s
Output contact (relay)	1NA, 5A (AC1)/2A (AC15) - 250V~

Reference standards

EN 60669-1, EN 60669-2-1.

Description	Code
Portable remote control, 6 channels/3 bands, range 15 m	2CSE1217EL
IR receiver, 1 channel, 1 pushbutton Relay output NO 5A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50/60Hz.	2CSE1218EL

Components



The Portable infrared beam remote control of the Élos range has six channels and three bands; the single-channel receiver has an output on relay for ON/OFF command of the specific consumers (lighting point, fan etc

Area of application

- Buildings with a high level of comfort in the modern residential or services sector.
- Renovations where the installation of terminal command circuits is considered burdensome or unaesthetic.
- Places intended for disabled persons.

Technical specifications of the remote control

Channels	6
Pushbuttons	6
Band selector	3 positions, housed in the battery compartment (the setting of the internal microswitch on 3 bands makes it possible to avoid interference with other remote controls)
Max. range	15 m
Power supply	3 mini/micro stylus alkaline batteries N 1.5V

Technical specifications of the receiver

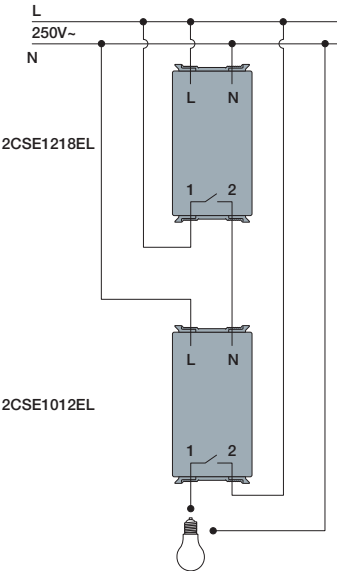
Power supply voltage	230V - 50/60Hz
Output contact, 1 relay	1NA, 5A (AC1)/2A (AC15) - 250V~
Monostable output relay	(only energized for the duration of the command)
Potential-free relay contact	(it is not suitable for directly controlling fluorescent lamps with a correction capacitor)

Reference standards

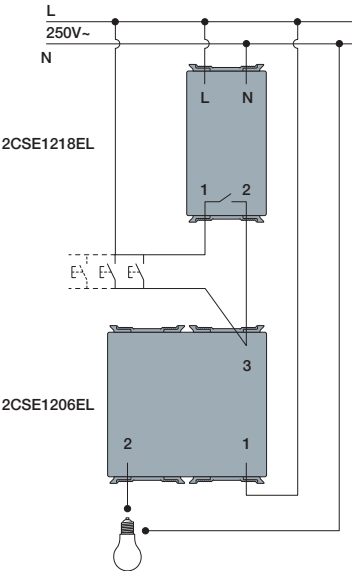
For the remote control: EN 50082-1.
For the receiver: EN 60669-1, EN 60669-2-1, EN 60669-2-2.

Wiring diagrams

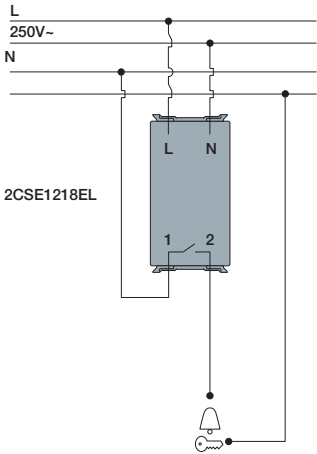
Load command



Control and adjustment of resistive and inductive loads



Impulse command for loads (bells, electrical locks, etc.)



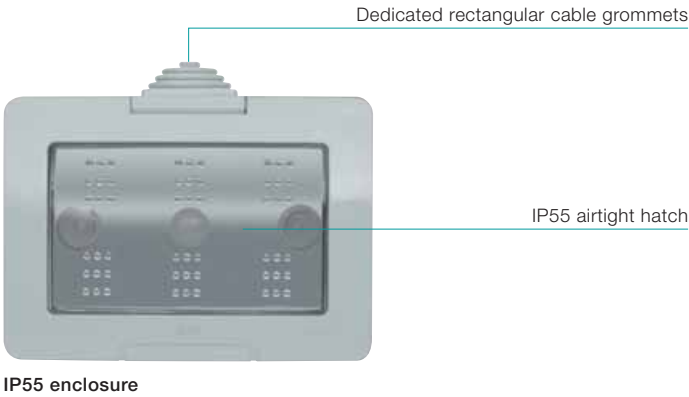
Control and adjustment through remote control and receiver

Élos - Technical details

Wall-mounted accessories and enclosures

IP40 and IP55 wall-mounted enclosures

4



Area of application

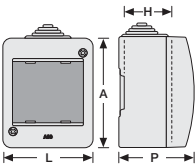
The IP40 wall-mounted enclosures, pursuant to Standard CEI 64-8, extend the area of application of the devices of the Élos series to environments such as boiler rooms, warehouses, mechanical workshops, basements etc., where protection class IP40 is prescribed, defined by Standard EN 60529 (CEI 70-1).

This is guaranteed through devices installed in the enclosures, if the installation is carried out according to the supported procedures, through the use of connections, cable grommets and pipe ducts.

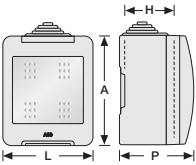
For devices with an open front (e.g. sockets) the protection class is less than IP40 but never less than IP20.

IP55 watertight wall-mounted enclosures, on the other hand, allow the application of the equipment of the Élos series in environments such as building sites, sports installations, marinas, industrial and agricultural establishments, gardens, camp sites etc. The protection class IP55, defined by Standard EN 60529 (CEI 70-1), is guaranteed by devices installed in the enclosures, if the installation is carried out according to the supported procedures, through the use of suitable accessories and with the cover closed..

Dimensions of IP40 and IP55 enclosures



IP40 enclosure	no. modules	H	A	L	P
2CSE2240EL	2	38	80	65	55
2CSE2340EL	3	38	80	104	55
2CSE2440EL	4	38	80	130	55
2CSE2840EL	8	38	80	260	55



IP55 enclosure	no. modules	H	A	L	P
2CSE2255EL	2	40,5	80	65	63
2CSE2355EL	3	40,5	80	104	63
2CSE2455EL	4	40,5	80	130	63
2CSE2855EL	8	40,5	80	260	63

Élos - Technical details

Wall-mounted accessories and enclosures

Because of the maximum depth dimension H, the IP40 and IP55 wall-mounted enclosures of the Élos series cannot house the following devices:

Code	Description	Code	Description
2CSE1012EL	Latching relay, 1 pole. Output contact 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	2CSE1209EL	Electronic dimmer with pushbutton control for resistive-inductive loads and electronic power supplies for halogen lamps with very low voltage, 25-300W (25-250VA), 230V~ - 50/60Hz
2CSE1013EL	Latching relay, 2 poles. Output contacts 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	2CSE1216EL	IR motion detector with twilight threshold for control and adjustment of the operation time of lighting devices. Relay output NO 5A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50/60Hz.
2CSE1014EL	Monostable relay, 1 pole. Output contact 10A (AC1)/4A (AC15) - 250V~. With 230V~ 50/60Hz coil	2CSE1304EL	Automatic MCB, 1P+N, C6, breaking capacity 1.5kA
2CSE1113EL	2P shaver socket with insulating transformer, Power supply 230V~ - 50/60Hz. Output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket P11 type)	2CSE1305EL	Automatic MCB, 1P+N, C10, breaking capacity 3kA
2CSE1202EL	Summer/winter electronic thermostat, with input for night-time reduction remote control and 3 temperature levels that can be set. Output contact NO, 5A (AC1)/2A (AC15) - 250V~	2CSE1306EL	Automatic MCB, 1P+N, C16, breaking capacity 3kA
2CSE1204EL	Electronic timed button with input for remote control, 1 output contact NO, 10A (AC1)/5A (AC15) - 250V~	2CSE1307EL	Automatic RCD 1P+N, C6 - 10mA, breaking capacity 1.5kA
2CSE1205EL	Electronic dimmer with rotating control for resistive loads 100-500W, 230V~ - 50/60Hz	2CSE1308EL	Automatic RCD 1P+N, C10 - 10mA, breaking capacity 3kA
2CSE1206EL	Electronic dimmer with pushbutton control for resistive and inductive loads, 60-500W (60-500VA), 230V~ - 50/60Hz	2CSE1309EL	Automatic RCD 1P+N, C16 - 10mA, breaking capacity 3kA
2CSE1207EL	Electronic dimmer with rotating control and with two-way switch for resistive and inductive loads, 40-300W (40-300VA), 230V~ - 50/60Hz	2CSE1319EL	Bell/buzzer, 12V - 50/60Hz, sound intensity buzzer 75 dB/1 m, bell 70 dB/1 m
2CSE1208EL	Electronic dimmer with pushbutton control for resistive-inductive loads and electronic power supplies for halogen lamps with very low voltage, 25-180W (25-180VA), 230V~ - 50/60Hz	2CSE1320EL	Bell/buzzer, 230V - 50/60Hz, sound intensity buzzer 75 dB/1 m, bell 70 dB/1 m
		2CSE1324EL	2P+E socket outlet, 16A - 250V~, bivalent, interlocked with MCB, P17/11
		2CSE1325EL	2P+E socket outlet, 16A - 250V~, interlocked with MCB, P30
		2CSE1326EL	2P+E socket outlet, 16A - 250V~, bivalent with RCD, 10mA, P17/11
		2CSE1426EL	Universal badge circuit-breaker with location light, 250V~

The installation of similar devices in the form of a DIN rail in the distribution board is recommended where possible.

Élos - Technical details

Frames

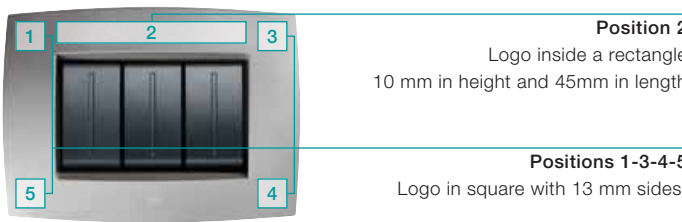
The frames of the **Élos Soft** line have a black under-plate that guarantees maximum adhesion to every type of surface and allows the application of finishing materials, while maintaining minimal protrusion from the wall.



Reference standards
CEI 23-9 (EN 60669-1).

Customization

Frames customized with a logo/text string can be supplied on request. They are produced by means of monochromatic pad printing on the areas highlighted below.



Customization is possible with standard colours (black, Pantone cool gray 3C, Pantone 5425 C) or with a colour specified by the customer.
Minimum order batch: 36 pieces including various modularities.
For quotes and delivery times contact an ABB sales executive.

The Élos Soft frames with glossy glass finish cannot be customized.

Élos - Coding

Order information



Coding criteria of devices

2	C	S	E	1				
Fixed part of the code					Product family	Product progressive numbe		Product line
0	Control devices					SF	Components for the Élos Soft line	
1	Socket outlets					SM	Components for the Élos Smart line	
2	Safety and comfort devices					EL	Components for both lines, Élos Soft and Élos Smart	
3	Protection devices and signalling devices							
4	Special systems							
5	Key covers							
6	Components for installation, accessories and spare parts							

Example: Single-pole circuit-breaker, Élos Soft

2	C	S	E	1	0	0	1	S	F
---	---	---	---	---	---	---	---	---	---



Coding criteria of the frames

2	C	S	E	0					
Fixed part of the code					No. of modules	Product line		Material line	
3	3-module frame				Élos Soft	see page 4/26	SFV	Élos Soft, glass	
4	4-module frame						SFP	Élos Soft, technopolymer	
6	6-module frame				Élos Smart	see page 4/30	SFZ	Élos Soft, metal	
8	8-module frame						SMP	Élos Smart, technopolymer	
12	12-module frame								

Example: Élos Smart technopolymer frame, 3 modules, silver grey colour

2	C	S	E	0	3	0	2	S	M	P
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Packaging

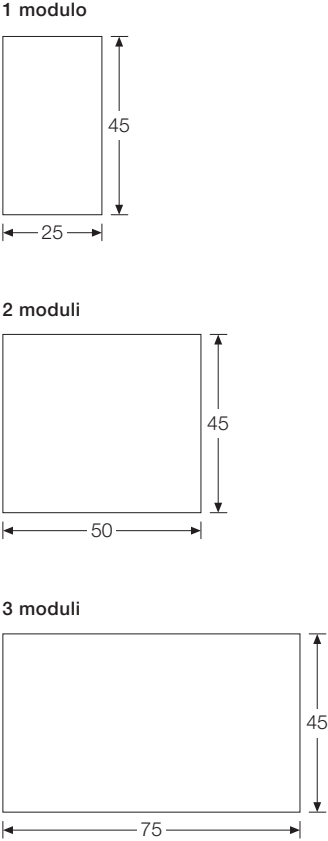
To enable automatic warehouse management using optical readers, the devices and frames of the Élos wiring accessories' range are packaged individually in boxes that display the EAN bar codes and that protect the contents adequately against dust and shocks. For a better explanation of the installation methods, a specific instruction sheet is supplied. Multiple packages are available for all the bar codes with the highest turnover.

Élos

Overall dimensions

4

Élos Soft Code	Élos Smart Code	Description	No. Modules	Depth mm
2CSE1001SF	2CSE1001SM	Single-pole switch, 16A - 250V~	1	29
2CSE1002SF	2CSE1002SM	Double-pole switch, 16A - 250V~	1	29
2CSE1003SF	2CSE1003SM	Single-pole two-way switch, 16A - 250V~	1	29
2CSE1004SF	2CSE1004SM	1P switch, 16A with functional indication	1	29
2CSE1005SF	2CSE1005SM	Single-pole push switch NO, 16A - 250V~	1	29
2CSE1006SF	2CSE1006SM	2P switch, 16A with functional indication	1	29
2CSE1007EL	-	Double-pole switch, 10A - 250V~, with key	1	32
2CSE1008SF	2CSE1008SM	1P two-way switch, 16A with functional indication	1	29
2CSE1009EL	-	Single-pole two-way switch, 10A - 250V~, with key	1	32
2CSE1010SF	2CSE1010SM	Intermediate switch, 16A - 250V~	1	29
2CSE1011SF	2CSE1011SM	Change-over switch, 10A - 250V~, 3 positions, with central OFF	1	29
2CSE1012EL	-	Latching relay, 1 pole. Output contact 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	38
2CSE1013EL	-	Latching relay, 2 poles. Output contacts 10A (AC1)/7A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	38
2CSE1014EL	-	Monostable relay, 1 pole. Output contact 10A (AC1)/4A (AC15) - 250V~. With 230V~ 50/60Hz coil	1	38
2CSE1015SF	2CSE1015SM	1P push switch NO, 16A, with functional indication	1	29
2CSE1016SF	2CSE1016SM	Single-pole push switch NC, 16A - 250V~	1	29
2CSE1017EL	-	Double single-pole push switch, NO, 16A - 250V~	1	29
2CSE1018SF	2CSE1018SM	Double single-pole push switch, NO, 10A - 250V~, with interlock	1	29
2CSE1019SF	2CSE1019SM	Double-pole push switch NO, 16A - 250V~	1	29
2CSE1020EL	-	Double-pole push switch NO, 16A - 250V~, with cord pull, 150 cm cord with ball grip	1	29
2CSE1021EL	-	Double-pole push switch, NO, 10A - 250V~, with key	1	32
2CSE1022SF	2CSE1022SM	Single-pole push switch NO, 10A - 250V~, START, with auxiliary NC contact, 10A - 250V~	1	29
2CSE1023SF	2CSE1023SM	Single-pole push switch NC, 10A - 250V~, STOP, with auxiliary NO contact	1	29
2CSE1024EL	-	Single-pole push switch NO, 16A - 250V~, with red diffuser	1	29
2CSE1025EL	-	Single-pole push switch NO, 16A - 250V~, with green diffuser	1	29
2CSE1026EL	-	Single-pole push switch NO, 10A - 250V~, with backlit label holder plate (with 12V or 24V lamps)	2	30
2CSE1027SF	2CSE1027SM	Single-pole push switch NO, 16A - 250V~, illuminable, with DOOR OPENER symbol	1	29
2CSE1028SF	2CSE1028SM	Single-pole push switch NO, 16A - 250V~, illuminable, with BELL symbol	1	29
2CSE1029SF	2CSE1029SM	Single-pole push switch NO, 16A - 250V~, illuminable, with LAMP symbol	1	29
2CSE1030SF	2CSE1030SM	Single-pole push switch NO, 16A - 250V~, illuminable, with STAIR LIGHT symbol	1	29
2CSE1101EL	-	2P+E socket outlet, 10A - 250V~, P11 type, std IT with safety shutters	1	25
2CSE1102EL	-	2P+E socket outlet, 16A - 250V~, P17 type, std IT with safety shutters	1	25
2CSE1103EL	-	2P+E socket outlet, 16A - 250V~, bivalent, P17/11 type, std IT with safety shutters	1	25
2CSE1104EL	-	2P+E socket outlets, 16A - 250V~, bivalent, P17/11 type, std IT with safety shutters	1	25



Élos Soft Code	Élos Smart Code	Description	No. Modules	Depth mm
2CSE1105EL	-	2P+E socket outlets, 16A - 250V~, std IT with safety shutters	1	25
2CSE1106EL	-	2P+E socket outlets, 16A - 250V~, P17/11 type, std IT with safety shutters	1	25
2CSE1107EL	-	2P+E double socket, 16A - 250V~, P17/11 type, std IT	2	27
2CSE1108EL	-	2P+E socket outlet, 16A - 250V~, P30 type, std IT/DE with safety shutters	2	32
2CSE1109EL	-	2P+E socket outlet, 16A - 250V~, P30/17 type, std IT/DE with safety shutters	2	32
2CSE1110EL	-	2P+E socket outlet, 16A - 250V~, P30/17 type, std IT/DE with safety shutters	2	32
2CSE1111EL	-	2P+E socket outlet, 16A - 250V~, P30/17 type, std IT/DE with safety shutters	2	32
2CSE1112EL	-	2P+E socket outlet, 16A - 250V~, P30/17 type, std IT/DE with safety shutters	2	32
2CSE1113EL	-	2P shaver socket with insulating transformer	3	44
2CSE1121EL	-	RJ11 telephone connector	1	23
2CSE1122EL	-	RJ12 telephone connector	1	23
2CSE1123EL	-	RJ11 double telephone connector	1	23
2CSE1124EL	-	RJ45 data connector, Cat. 5e, UTP	1	23
2CSE1125EL	-	RJ45 data connector, Cat. 5e, FTP	1	23
2CSE1126EL	-	RJ45 data connector, Cat. 3, UTP	1	23
2CSE1134EL	-	2P+E socket outlet, 13A - 250V~, British Standard	2	32
2CSE1136EL	-	2P+E socket outlet, 10A - 250V~/15A - 125V~, EuroAmerican Standard	1	27
2CSE1137EL	-	TV/SAT coaxial socket, direct, male IEC connector, ø 9.5 mm	1	27
2CSE1138EL	-	TV/SAT coaxial socket, feedthrough, male IEC connector, ø 9.5 mm, attenuation 5 dB	1	27
2CSE1139EL	-	TV/SAT coaxial socket, direct, female connector	1	27
2CSE1140EL	-	TV/SAT coaxial socket, feedthrough, female connector, attenuation 5 dB	1	27
2CSE1141EL	-	2P+E socket outlet, 10A - 250V~, Australian / South American Standard	2	32
2CSE1144EL	-	2P+E socket outlet, 16A - 250V~, French Standard	2	32
2CSE1145EL	-	2P+E socket outlet, 15A - 125V~, American Standard	1	27
2CSE1148EL	-	2P+E socket outlet, 10A - 250V~, Swiss Standard	1	27
2CSE1202EL	-	Summer/winter electronic thermostat	3	42
2CSE1204EL	-	Electronic timed button with input for remote control	2	44
2CSE1205EL	-	Electronic dimmer with rotary control for resistive loads 100-500W, 230V~ - 50/60Hz	1	44
2CSE1206EL	-	Electronic dimmer with pushbutton control 60-500W (60-500VA), 230V~ - 50/60Hz	2	44
2CSE1207EL	-	Electronic dimmer with rotary control 40-300W (40-300VA), 230V~ - 50/60Hz	1	41
2CSE1208EL	-	Electronic dimmer with pushbutton control 25-180W (25-180VA), 230V~ - 50/60Hz	1	44
2CSE1209EL	-	Electronic dimmer with pushbutton control 25-300W (25-250VA), 230V~ - 50/60Hz	2	44
2CSE1211EL	-	LPG gas presence electronic detector . Power supply 230V~ - 50Hz	3	44
2CSE1212EL	-	Acoustic and luminous signal repeater with silencer pushbutton, 230V~ - 50/60Hz	2	44

Élos

Overall dimensions

4

Élos Soft Code	Élos Smart Code	Description	No. Modules	Depth mm
2CSE1215EL	-	Digital clock/calendar with display of hour-minutes/day-month, 230V~ - 50Hz	1	40
2CSE1216EL	-	IR motion detector with twilight thresholds	1	40
2CSE1218EL	-	IR receiver, 1 channel, 1 pushbutton	1	40
2CSE1219EL	-	Summer/winter electronic time-programmed thermostat	2	35
2CSE1220EL	-	Natural gas presence electronic detector with acoustic and luminous signal	2	40
2CSE1222EL	-	230V~ - 50-60Hz power supply, output 12V~	1	40
2CSE1223EL	-	Daily/weekly electronic programmer, 1 channel, 1 NO/NC changeover output contact, 8A (AC1)/4A (AC15) 230V~ - 50/60 Hz	2	35
2CSE1224EL	-	Flush-mounted anti-blackout light, dimension 2 Élos modules	2	35
2CSE1301EL	-	Fuse holder, for fuses ø 6.3x32 mm, 16A - 250V~	1	25
2CSE1302EL	-	Overvoltage limiter with tripping signal, 75J, 250V~	1	25
2CSE1303EL	-	Anti-interference filter, 3.5A - 250V~	1	25
2CSE1304EL	-	Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	1	37
2CSE1305EL	-	Automatic MCB, 1P+N, C10, breaking capacity 3kA	1	37
2CSE1306EL	-	Automatic MCB, 1P+N, C16, breaking capacity 3kA	1	37
2CSE1307EL	-	Automatic RCD, 1P+N, C6 - 10mA, breaking capacity 1.5kA	2	37
2CSE1308EL	-	Automatic RCD, 1P+N, C10 - 10mA, breaking capacity 3kA	2	37
2CSE1309EL	-	Automatic RCD, 1P+N, C16 - 10mA, breaking capacity 3kA	2	37
2CSE1310EL	-	Amber warning light, 12/24/250V~	1	24
2CSE1311EL	-	Transparent warning light, 12/24/250V~	1	24
2CSE1312EL	-	Red warning light, 12/24/250V~	1	24
2CSE1313EL	-	Green warning light, 12/24/250V~	1	24
2CSE1314EL	-	Blue warning light, 12/24/250V~	1	24
2CSE1315EL	-	Double warning light, 12/24/250V~, red/green	1	24
2CSE1316EL	-	Opal steplight lamp with adjustable beam, 12/24V	3	27
2CSE1317EL	-	Bell, 12V, 50Hz, 8VA, sound intensity 80 dB/1 m	1	24
2CSE1318EL	-	Bell, 230V, 50Hz, 8VA, sound intensity 80 dB/1 m	1	24
2CSE1319EL	-	Bell/buzzer, 12V - 50/60Hz, sound intensity buzzer 75 dB/1 m, bell 70 dB/1 m	2	40
2CSE1320EL	-	Bell/buzzer, 230V - 50/60Hz, sound intensity buzzer 75 dB/1 m, bell 70 dB/1 m	2	40
2CSE1321EL	-	Buzzer, 12V - 50Hz, 8VA, sound intensity 70 dB/1 m	1	24
2CSE1322EL	-	Buzzer, 230V - 50Hz, 8VA, sound intensity 70 dB/1 m	1	24
2CSE1324EL	-	2P+E socket outlet, 16A - 250V~, bivalent, interlocked with MCB, P17/11	2	37,5
2CSE1325EL	-	2P+E socket outlet, 16A - 250V~, interlocked with MCB, P30	3	37,5
2CSE1326EL	-	2P+E socket outlet, 16A - 250V~, bivalent with RCD, 10mA, P17/11	3	37,5
2CSE1328EL	-	Automatic RCD, 1P+N, C6 - 30mA, breaking capacity 1.5kA	2	37
2CSE1329EL	-	Automatic RCD, 1P+N, C10 - 30mA, breaking capacity 3kA	2	37

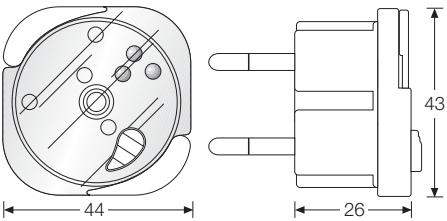
Élos Soft Code	Élos Smart Code	Description	No. Modules	Depth mm
2CSE1330EL	-	Automatic RCD, 1P+N, C16 - 30mA, breaking capacity 3kA	2	37
2CSE1426EL	-	Universal badge circuit-breaker with location light, 250V~	3	42
2CSE3101EL	-	White frame with enclosure for rails, 1 module	1*	60
2CSE3102EL	-	Anthracite frame with enclosure for rails, 1 module	1*	60
2CSE1213EL	-	Solenoid valve for gas systems with manual reset, normally open, 230V~ - 50Hz	drawing	
2CSE1214EL	-	Removable anti-blackout light.	drawing	
2CSE1217EL	-	Portable remote control, 6 channels/3 bands, range 15 m	drawing	

* Supplied with frame, support and dedicated housing

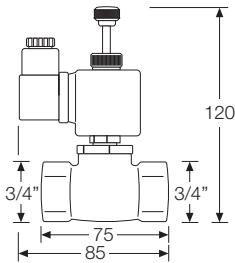
Élos

Overall dimensions

Anti-blackout light

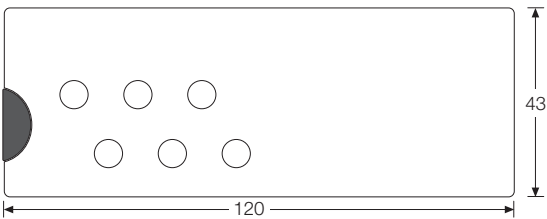


Solenoid valve

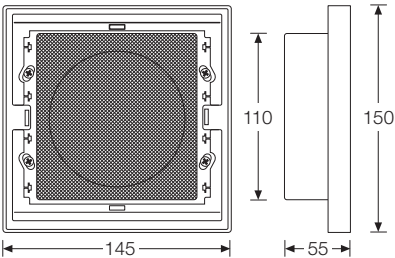


4

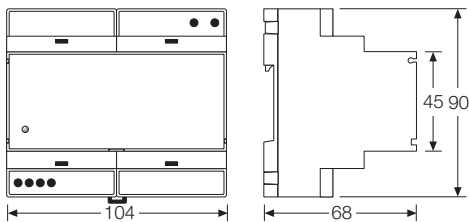
Remote control



Sound diffuser



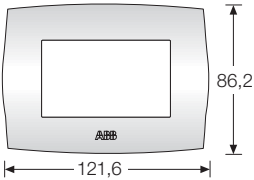
Electronic power supply



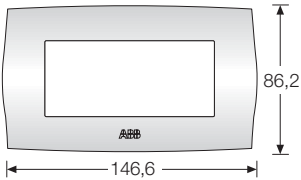
All measurements are in millimetres.

Frames

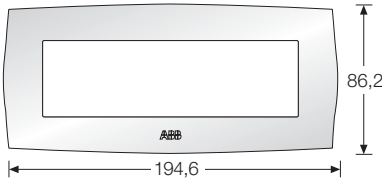
3 modules



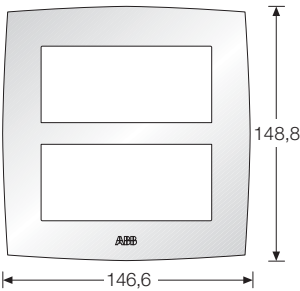
4 modules



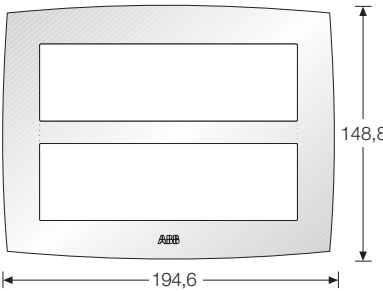
6 modules



8 modules (Élos Smart)

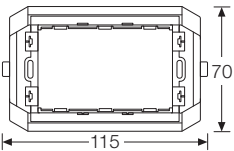


12 modules (Élos Smart)



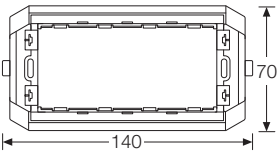
Supports

3 modules



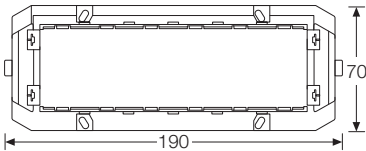
Screw distance of the box: 83.5 mm

4 modules



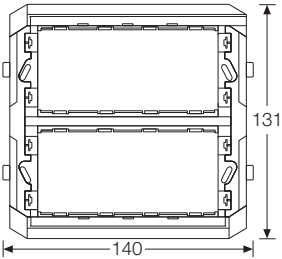
Screw distance of the box: 108.5 mm

6 modules



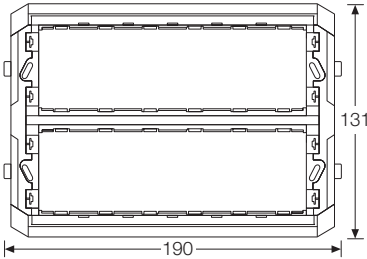
Screw distance of the box: 100 mm

8 modules (Élos Smart)



Screw distance of the box: 103.5 mm

12 modules (Élos Smart)



Screw distance of the box: 163.5 mm

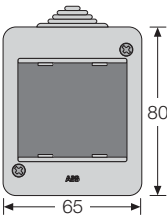
All measurements are in millimetres.

Élos

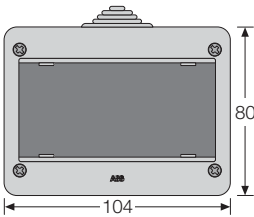
Overall dimensions

IP40 wall-mounted enclosure

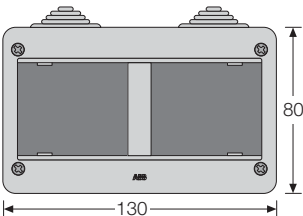
2 modules



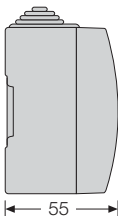
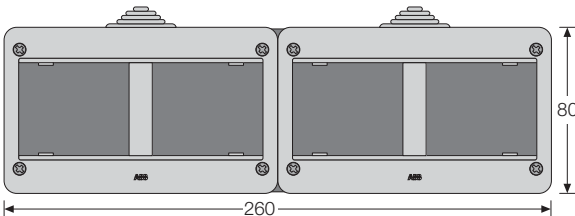
3 modules



4 modules

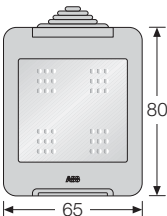


8 modules

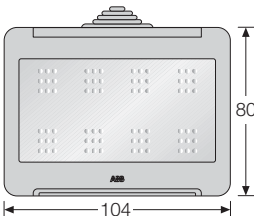


IP55 wall-mounted enclosures

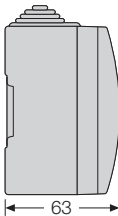
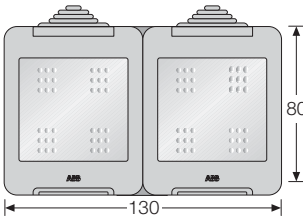
2 modules



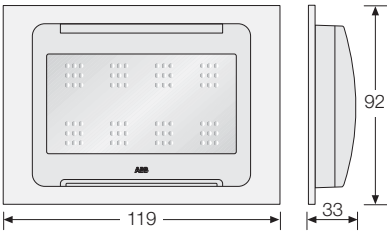
3 modules



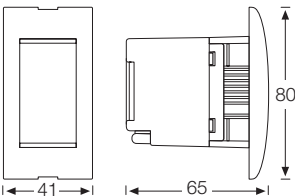
4 modules



IP55 flush-mounted escutcheon plate



1-pole frames with enclosure for rails



All measurements are in millimetres.

Chiara

Order codes and technical details

Components and functions	5/2
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Order codes

Switches	5/4
Socket outlets	5/7
Protection devices	5/10
Signalling devices	5/11
Safety and comfort devices	5/12
Components for installation	5/14
Other installation solutions	5/15
Wall-mounted enclosures and flush-mounted escutcheon plates	5/17
Quick selection table for frames	5/18
Metallic frames with glossy finish	5/19
Metallic frames with satin finish	5/19
Technopolymer frames	5/20

Technical details

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Installation solutions	5/23
Selection of lights	5/28
Control devices	5/29
Socket outlets	5/32
Protection devices	5/42
Safety and comfort devices	5/47
Wall-mounted enclosures	5/59
Other installation solutions	5/61
Frames	5/62
Coding - Order information	5/63
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Chiara

Components and functions



Control devices

Switches, push switches, two-way switches, intermediate switches, relays and change-over switches in different versions to configure functions and control points for appliances in the most flexible manner, suitable for all residential and work contexts. All the control devices, except for relays and change-over switches, can be lit. The lamp with which they are to be equipped must be ordered separately. The relevant code is listed under accessories.



Socket outlets

The versions with 2P+E 10-16A plug sockets for 250V lines are available in both Italian and German standards, with safety shutters and lateral/central earth. For telephone and data transmission applications, various types of connectors compatible with the most widespread and advanced international wiring standards are available. The range also includes interlocked Italian/German standard sockets.



Protection devices

These devices intervene in the event of overloads, short circuits and other phenomena that involve a risk for the safety of persons and which compromise proper operation of connected appliances, performing their protection function directly downstream without impacting the power supply to other points in the electrical installation.



Signalling devices

Warning lights to display the operating status of connected appliances, as well as bells and buzzers. The lamp with which the warning lights are to be fitted must be ordered separately. The code is listed under accessories.



Comfort devices

To optimize operation of the electrical appliances and to increase the liveability of the environments, the range includes programming, adjustment and timer devices such as time-programmed thermostats, electronic thermostats, dimmers and IR presence detectors with twilight sensor.

The anti-blackout light switches on in the event of a power cut with autonomy up to 4.5 hours. It can be removed from the socket and used as a torch.

A powerful 3-module emergency light is also available with LED lighting.



Frames

The range consists of eight technopolymer frames with glossy finish in eight colour variants and four colours - gold, metal black, chromium and bronze - made from technopolymer with glossy or satin pearlescent finish.

5



Components for installation

Blank covers for unused modules and supports for 2, 3, 4 and 7 modules for the installation of devices and components in round and rectangular flush-mounted boxes.



Other installation solutions

Products and solutions for protected installation (IP55 watertight escutcheon plates and IP40/IP55 enclosures) are available, as well as adapters for installation on a DIN rail or in Undernet under-floor turret. The self-supporting frames provide an economic and flexible solution for more particular installation contexts.



All the products in range that require the IMQ mark have obtained it, in compliance with the specific Reference standards.

Chiara - Order codes

Switches



Switches

Description	No. modules	Code	Packing/ No. items
Single-pole switch, 16A - 250V~	1	2CSK1001CH	16/96
Double-pole switch, 16A - 250V~	1	2CSK1002CH	16/48
Single-pole switch, 16A - 250V~, 2 modules	2	2CSK1004CH	8/48
Double-pole switch, 16A - 250V~, with key control	1	2CSK1006CH	1/24
Double-pole switch, 16A - 250V~, with universal key control	1	2CSK1006CHU	1/24

Information on the illumination of switches on page 5/28
Technical details from page 5/29

5



Two-way switches

Description	No. modules	Code	Packing/ No. items
Single-pole two-way switch, 16A - 250V~	1	2CSK1003CH	16/96
Single-pole two-way switch, 16A - 250V~, 2 modules	2	2CSK1007CH	8/48

Information on the illumination of switches on page 5/28
Technical details from page 5/29

Intermediate switches

Description	No. modules	Code	Packing/ No. items
Intermediate switch, 16A - 250V~	1	2CSK1010CH	16/48
Intermediate switch, 16A - 250V~, 2 modules	2	2CSK1008CH	8/48

Information on the illumination of switches on page 5/28
Technical details from page 5/29



Commutatori

Description	No. modules	Code	Packing/ No. items
Change-over switch, 10A - 250V~, 3 positions, with central OFF	1	2CSK1011CH	16/48

Information on the lighting of the control devices on page 5/28
Technical details from page 5/29



Relays

Description	No. modules	Code	Packing/ No. items
Single-pole relay with 230V~ coil, 10A output contact	1	2CSK1012CH	16/48
4 sequence change-over switch relay, with 230V~ coil, 2 10A output contacts	1	2CSK1014CH	16/48

Technical details from page 5/30



60001F0901

2CSK1005CH
2CSK1016CH

60008F0901

2CSK1017CH



60009F0901

2CSK1018CH



60010F0901

2CSK1022CH



60011F0901

2CSK1023CH



60012F0901

2CSK1020CH
2CSK1021CH

600612F0901

2CSK1009CH
2CSK1009CHU

Push switches

Description	No. modules	Code	Packing/ No. items
Single-pole push switches NO, 16A - 250V~	1	2CSK1005CH	16/96
Single-pole push switches NC, 16A - 250V~	1	2CSK1016CH	16/96
Double single-pole push switches, NO+NO, 16A - 250V~	1	2CSK1017CH	16/96
Double single-pole push switches, NO+NO, 16A - 250V~, with interlock	1	2CSK1018CH	16/96
Single-pole push switches, 1NO and1NC, 16A - 250V~, with ON symbol	1	2CSK1022CH	16/96
Single-pole push switches, 1NO and1NC, 16A - 250V~, with OFF symbol	1	2CSK1023CH	16/96
Single-pole push switches NO, 16A - 250V~, with cord pull, with 2.25 m cord	1	2CSK1020CH	16/96
Single-pole push switches NC, 16A - 250V~, with cord pull, with 2.25 m cord	1	2CSK1021CH	16/96
Double-pole push switches, NO, 16A - 250V~, with key control	1	2CSK1009CH	1/24
Double-pole push switches, NO, 16A - 250V~, with universal key control	1	2CSK1009CHU	1/24

Information on the illumination of switches on page 5/28

Technical details from page 5/29

Chiara - Order codes

Switches



Special push switch

Description	No. modules	Code	Packing/ No. items
Single-pole push switches NO, 16A - 250V~, with BELL symbol	1	2CSK1028CH	16/96
Single-pole push switches NO, 16A - 250V~, with KEY symbol	1	2CSK1029CH	16/96
Single-pole push switches NO, 16A - 250V~, with STAIR LIGHT symbol	1	2CSK1030CH	16/96
Single-pole push switches NO, 16A - 250V~, with red diffuser	1	2CSK1024CH	16/96
Single-pole push switches NO, 16A - 250V~, with green diffuser	1	2CSK1025CH	16/96
Single-pole push switches NO, 16A - 250V~, with orange diffuser	1	2CSK1026CH	16/96
Single-pole push switches NO, 16A - 250V~, with white diffuser, 1 module	1	2CSK1027CH	16/96
Single-pole push switches NO, 16A - 250V~, with backlit label holder plate, 2 modules	2	2CSK1031CH	8/48
Single-pole push switches NO, 16A - 250V~, with backlit label holder plate, 3 modules	3	2CSK1032CH	1/12

Information on the illumination of switches on page 5/28
Technical details from page 5/29

Chiara - Order codes

Socket outlets



600022F0901

2CSK1101CH



600023F0901

2CSK1102CH



600024F0901

2CSK1103CH



600025F0901

2CSK1104CH



600026F0901

2CSK1105CH



600027F0901

2CSK1106CH

Plug sockets, Italian standard with safety shutters

Description	No. modules	Code	Packing/ No. items
2P+E socket outlet, 10A - 250V~, P11 type	1	2CSK1101CH	16/96
2P+E socket outlet, 16A - 250V~, P17 type	1	2CSK1102CH	16/96
2P+E socket outlet, 10/16A - 250V~, P17/P11 type	1	2CSK1103CH	16/96
2P+E socket outlets, 10/16A - 250V~, P17/P11 type, coloured for privileged circuits	1	2CSK1104CH	16/96
	1	2CSK1105CH	16/96
	1	2CSK1106CH	16/96

Technical details from page 5/32

5



600028F0901

2CSK1108CH



600029F0901

2CSK1114CH



600030F0901

2CSK1115CH



600031F0901

2CSK1116CH



600032F0901

2CSK1109CH



600033F0901

2CSK1110CH



600034F0901

2CSK1111CH



600035F0901

2CSK1112CH

Plug sockets, Italian/German standard with safety shutters

Description	No. modules	Code	Packing/ No. items
2P+E socket outlet, 16A - 250V~, P30 type	2	2CSK1108CH	16/96
2P+E socket outlets, 16A - 250V~, P30 type, coloured for privileged circuits	2	2CSK1114CH	16/96
	2	2CSK1115CH	16/96
	2	2CSK1116CH	16/96
2P+E socket outlet, 16A - 250V~, P30/17 type	2	2CSK1109CH	8/48
2P+E socket outlets, 16A - 250V~, P30/17 type, coloured for privileged circuits	2	2CSK1110CH	8/48
	2	2CSK1111CH	8/48
	2	2CSK1112CH	8/48

Technical details from page 5/32

Chiara - Order codes

Socket outlets



600038F0901

2CSK1324CH



600037F0901

2CSK1325CH



600038F0901

2CSK1326CH



600038F0901

2CSK1113CH



600613F0901

2CSK1160CH



600040F0901

2CSK1117CH



600041F0901

2CSK1119CH

2CSK1118CH
2CSK1132CH
2CSK1136CH
2CSK1137CH
2CSK1138CH



600042F0901

2CSK1133CH
2CSK1120CH
2CSK1130CH
2CSK1131CH
2CSK1139CH

Interlocked socket outlets with automatic MCB and automatic RCD

Description	No. modules	Code	Packing/ No. items
2P+E socket outlet, 16A - 250V, interlocked with MCB, P17/11	2	2CSK1324CH	1/6
2P+E socket outlet, 16A - 250V, interlocked with MCB, P30	3	2CSK1325CH	1/4
2P+E socket outlet, 16A - 250V, with RCD 10mA, P17/11	3	2CSK1326CH	1/4

Technical details on page 5/35

Special sockets

Description	No. modules	Code	Packing/ No. items
2P shaver socket with insulating transformer Power supply 230V~ - 50/60Hz Output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket, P11 type)	3	2CSK1113CH	1/1
Flush-mounted USB charger 500-650mA, with male type A connector, power supply 230~ 50/60Hz, output voltage 5V DC	1	2CSK1160CH	1/24

Technical details on page 5/33

TV/SAT sockets

Description	No. modules	Code	Packing/ No. items
TV coaxial socket, direct, male IEC connector ø 9.5 mm, insulated type	1	2CSK1117CH	8/48
TV/SAT coaxial socket, direct, male IEC connector ø 9.5 mm, with feedthrough of direct current	1	2CSK1118CH	8/48
TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 7dB	1	2CSK1132CH	8/48
TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 10dB	1	2CSK1136CH	8/48
TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 14dB	1	2CSK1137CH	8/48
TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 18dB	1	2CSK1138CH	8/48
TV/SAT coaxial socket, direct, female F connector, with feedthrough of direct current	1	2CSK1119CH	8/48
Double demixed TV/SAT coaxial socket, direct, male IEC connector ø 9.5 mm and female F connector	1	2CSK1133CH	8/48
Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 7dB	1	2CSK1120CH	8/48
Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 10dB	1	2CSK1130CH	8/48
Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 14dB	1	2CSK1131CH	8/48
Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 18dB	1	2CSK1139CH	8/48

Technical details from page 5/37



600043F0901

2CSK1121CH
2CSK1122CH



600044F0901

2CSK1124CH
2CSK1127CH



600045F0901

2CSK1125CH
2CSK1128CH



600046F0901

2CSK1135CH

Network and telephone sockets

Description	No. modules	Code	Packing/ No. items
RJ11 telephone connector	1	2CSK1121CH	1/16
RJ12 telephone connector	1	2CSK1122CH	1/16
RJ45 connector, Cat. 5e, UTP (unshielded)	1	2CSK1124CH	16/96
RJ45 connector, Cat. 5e, FTP (shielded)	1	2CSK1125CH	16/96
RJ45 connector, Cat. 6, UTP (unshielded)	1	2CSK1127CH	16/96
RJ45 connector, Cat. 6, FTP (shielded)	1	2CSK1128CH	16/96
Adapter for RJ45 connector, Keystone type	1	2CSK1135CH	16/96

Technical details from page 5/40

Chiara - Order codes

Protection devices



2CSK1301CH



2CSK1315CH



2CSY1302MY

Fuse holders, overvoltage limiters

Description	No. modules	Code	Packing/ No. items
Fuse holder, for fuses Ø5x20 / Ø6.3x32 mm, max. 16A	1	2CSK1301CH	1/24
Overvoltage limiter, 75J, 230V~	1	2CSK1315CH	1/24
Spare protection for overvoltage limiter	1	2CSY1302MY	1/24

Technical details from page 5/42

Miniature circuit-breakers and Residual current circuit-breakers

Description	No. modules	Code	Packing/ No. items
Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	1	2CSK1304CH	16/96
Automatic MCB, 1P+N, C10, breaking capacity 3kA	1	2CSK1305CH	1/12
Automatic MCB, 1P+N, C16, breaking capacity 3kA	1	2CSK1306CH	1/12
Automatic RCD, 1P+N, C6 - 10 mA, breaking capacity 1.5kA	2	2CSK1307CH	1/6
Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2	2CSK1308CH	1/6
Automatic RCD, 1P+N, C16 - 10 mA, breaking capacity 3kA	2	2CSK1309CH	1/6
Automatic RCD, 1P+N, C6 - 30 mA, breaking capacity 1.5kA	2	2CSK1328CH	1/6
Automatic RCD, 1P+N, C10 - 30 mA, breaking capacity 3kA	2	2CSK1329CH	1/6
Automatic RCD, 1P+N, C16 - 30 mA, breaking capacity 3kA	2	2CSK1330CH	1/6

Technical details from page 5/44



2CSK1304CH



2CSK1305CH



2CSK1306CH



2CSK1307CH



2CSK1308CH



2CSK1309CH

Chiara - Order codes

Signalling devices



600057FC901

2CSK1310CH



600058FC901

2CSK1311CH



600059FC901

2CSK1312CH



600060FC901

2CSK1313CH

Light signals

Description	No. modules	Code	Packing/ No. items
Orange warning light (supplied without lamp)	1	2CSK1310CH	16/96
White warning light (supplied without lamp)	1	2CSK1311CH	16/96
Red warning light (supplied without lamp)	1	2CSK1312CH	16/96
Green warning light (supplied without lamp)	1	2CSK1313CH	16/96

Information on the illumination of the warning lights on page 5/28



600061FC901

2CSK1317CH
2CSK1318CH
2CSK1321CH
2CSK1322CH

Bells and buzzers

Description	No. modules	Code	Packing/ No. items
Electro-mechanical bell, 12V, power 5VA, sound intensity 80dB	1	2CSK1317CH	8/48
Electro-mechanical bell, 230V, power 8VA, sound intensity 80dB	1	2CSK1318CH	8/48
Electro-mechanical buzzer, 12V, power 5VA, sound intensity 70dB	1	2CSK1321CH	8/48
Electro-mechanical buzzer, 230V, power 8VA, sound intensity 70dB	1	2CSK1322CH	8/48

Chiara - Order codes

Safety and comfort devices



2CSK1201CH



2CSK1202CH



2CSK1205CH
2CSK1204CH



2CSK1207CH



2CSK1210CH



2CSK1211CH

Time-programmed thermostats and thermostats

Description	No. modules	Code	Packing/ No. items
Summer/winter electronic time-programmed thermostat with 4 temperature levels, relay output, 1 NO/NC change-over contact 8A (AC1)/2A (AC15) - Power supply 230V~ 50/60Hz	3	2CSK1201CH	1/12
Summer/winter electronic thermostat, relay output, 1 NO contact 8A (AC1)/2A (AC15) - Power supply 230V~ 50/60Hz	2	2CSK1202CH	1/12

Technical details from page 5/47

Dimmer

Description	No. modules	Code	Packing/ No. items
Electronic dimmer with rotary control for resistive loads 100-500W, 230V~ 50/60Hz	1	2CSK1205CH	2/12
Electronic dimmer with rotary control and with two-way switch for resistive loads 100-500W, 230V~ - 50/60Hz	1	2CSK1204CH	2/12
Electronic dimmer with pushbutton control for resistive and inductive loads 60-500W, (60-500VA) 230V~ - 50/60Hz	1	2CSK1207CH	2/12

Technical details from page 5/50

Gas detectors

Description	No. modules	Code	Packing/ No. items
Electronic natural gas detector with acoustic and light signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box	3	2CSK1210CH	1
Electronic LPG gas detector with acoustic and light signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box	3	2CSK1211CH	1
Natural gas probe replacement module	-	2CSY1220MC	1
LPG gas probe replacement module	-	2CSY1223MC	1

Technical details from page 5/53



2CSK1214CH



600069FC601



600070F0601

2CSK1303CH



2CSK1426CH



600064F0601

2CSK1216CH

Emergency lighting

Description	No. modules	Code	Packing/ No. items
Removable anti-blackout light, 230V~.	-	2CSK1214CH	1/6
Charge reserve 4.5 h and recharge time 10-20h. To be combined with 230V~ plug sockets; particularly recommended for codes 2CSK1108CH and 2CSK1109CH.			
LED light for emergency lighting or steplight.	3	2CSK1303CH	1/1
Charge reserve up to 3h and recharge time 12h.			
Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box			

Technical details from page 5/55

Other devices

Description	No. modules	Code	Packing/ No. items
Universal badge switch with location light.	2	2CSK1426CH	1/12
Relay output with NO contact 10A (AC1). Power supply 230V~ 50/60Hz			
IR motion detector with twilight sensor for control and adjustment of the operation time of lighting devices.	1	2CSK1216CH	1/12
Relay output NO 5A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50/60Hz.			

Technical details from page 5/57

Chiara - Order codes

Components for installation



Blank covers

Description	No. modules	Code	Packing/ No. items
Blank cover, 1 module	1	2CSK1601CH	3/45
Blank cover, 1 module, with hole for cable outlet ø 12.5mm	1	2CSK1606CH	3/90



2CSK1612CH



2CSK1602CH



2CSK1603CH



2CSK1604CH



2CSK1607CH



2CSK1613CH

Supports

Description	No. modules	Code	Packing/ No. items
2-module support with latching claws for round box	2	2CSK1612CH	20/120
2-module support with screws for rectangular or round box with screws (center distance 60mm)	2	2CSK1602CH	20/120
3-module support for rectangular box (center distance 83.5 mm)	3	2CSK1603CH	10/240
4-module support for rectangular box (center distance 108 mm)	4	2CSK1604CH	10/180
7-module support for rectangular box (center distance 100 mm)	7	2CSK1607CH	10/120

Installation solutions from page 5/23

Accessories

Description	No. modules	Code	Packing/ No. items
Filament lamp, 230V, cable length 100mm. To be used in combination with illuminable switches	-	2CSK1613CH	0/24

Information on the illumination of switches on page 5/28

Chiara - Order codes

Other installation solutions



White self-supporting frame

600709F0901



Grey self-supporting frame

600709F0901



Slate grey self-supporting frame

600710F0901



Brown self-supporting frame

600711F0901



Undernet towers

600712F0901



2CSK1625CH

600077F0901

Self-supporting frames

Description	No. modules	Code	Packing/ No. items
2-module self-supporting frame, white RAL9016	2	2CSK1621CH	1/12
2-module self-supporting frame, grey RAL7035	2	2CSK1622CH	1/12
2-module self-supporting frame, slate grey RAL7021	2	2CSK1623CH	1/12
2-module self-supporting frame, brown RAL8014	2	2CSK1624CH	1/12
3-module self-supporting frame, white RAL9016	3	2CSK1631CH	1/12
3-module self-supporting frame, grey RAL7035	3	2CSK1632CH	1/12
3-module self-supporting frame, slate grey RAL7021	3	2CSK1633CH	1/12
3-module self-supporting frame, brown RAL8014	3	2CSK1634CH	1/12
4-module self-supporting frame, white RAL9016	4	2CSK1641CH	1/12
4-module self-supporting frame, grey RAL7035	4	2CSK1642CH	1/12
4-module self-supporting frame, slate grey RAL7021	4	2CSK1643CH	1/12
4-module self-supporting frame, brown RAL8014	4	2CSK1644CH	1/12

Installation solutions from page 5/23

Undernet towers and adapters

Description	No. modules	Code	Packing/ No. items
Undernet tower, 16 contact blocks with hollow cover - 300x310	-	10900	1/1
Undernet tower, 16 contact blocks with stainless steel cover - 300x310	-	10901	1/1
Undernet tower, 10 contact blocks with hollow cover - 300x235	-	10902	1/1
Undernet tower, 10 contact blocks with stainless steel cover - 300x235	-	10903	1/1
5 contact blocks support for Undernet tower 10900 - 10901	5	2CSK1625CH	1/12
6 contact blocks support for Undernet tower 10902 - 10903	6	2CSK1626CH	1/12

Installation solutions from page 5/23

Chiara - Order codes

Other installation solutions



2CSK1608CH

Support for DIN bar 1-2-3 modules

Description	No. modules	Code	Packing/ No. items
Support for DIN bar for 1-2-3 modules, versionable	1/2/3	2CSK1608CH	1/6

Technical details on page 5/61
Installation solutions from page 5/23



Lusy table tower

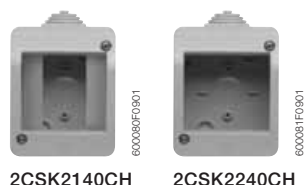
Lusy table tower

Description	No. modules	Code	Packing/ No. items
For mounting-frames and 4-module frames	4	10 507	1/8

Installation solutions from page 5/23

Chiara - Order codes

Wall-mounted enclosures and flush-mounted escutcheon plates



2CSK2140CH

2CSK2240CH



2CSK2340CH



2CSK2440CH



2CSK2155CH

2CSK2255CH



2CSK2355CH



2CSK2455CH



2CSK3255CH



2CSK3355CH

IP40 wall-mounted enclosures

Description	No. modules	Code	Packing/ No. items
1-space enclosure, IP40	2	2CSK2140CH	10/40
2-space enclosure, IP40	2	2CSK2240CH	10/40
3-space enclosure, IP40	3	2CSK2340CH	10/30
4-space enclosure, IP40	4	2CSK2440CH	10/20

Technical details from page 5/59
Installation solutions from page 5/23

IP55 wall-mounted enclosures

Description	No. modules	Code	Packing/ No. items
1-space enclosure, IP55	2	2CSK2155CH	10/40
2-space enclosure, IP55	2	2CSK2255CH	10/40
3-space enclosure, IP55	3	2CSK2355CH	8/24
4-space enclosure, IP55	4	2CSK2455CH	8/16

Technical details from page 5/59
Installation solutions from page 5/23

IP55 flush-mounted escutcheon plates

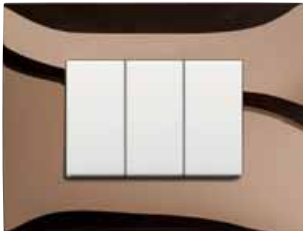
Description	No. modules	Code	Packing/ No. items
IP 55 2-module frame, white	2	2CSK3255CH	1/40
IP 55 3-module frame, white	3	2CSK3355CH	1/40

Installation solutions from page 5/23

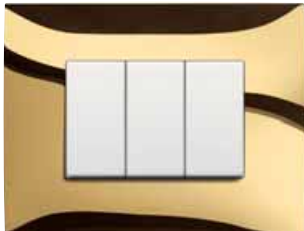
Chiara - Order codes

Quick selection table for frames

Metallic frames with glossy finish



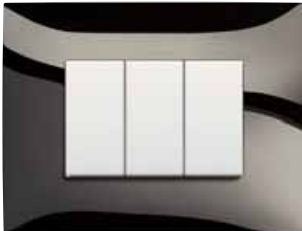
Glossy bronze
page 5/19



Glossy gold
page 5/19



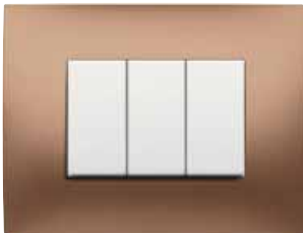
Glossy chromium
page 5/19



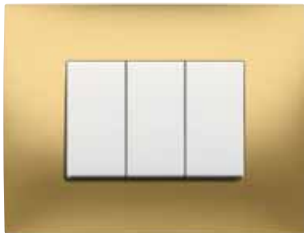
Glossy metal black
page 5/19

5

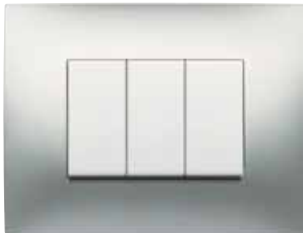
Metallic frames with satin finish



Bronze satin finish
page 5/19



Gold satin finish
page 5/19

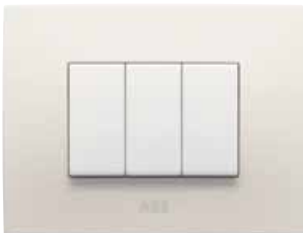


Chromium satin finish
page 5/19



Metal black satin finish
page 5/19

Technopolymer frames



White
page 5/20



Sand
page 5/20



Stone
page 5/20



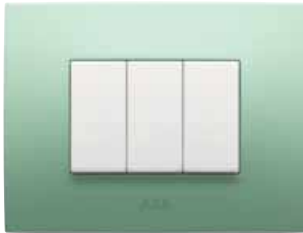
Volcano
page 5/20



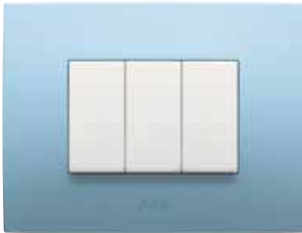
Pastel yellow
page 5/20



Pastel orange
page 5/20



Pastel green
page 5/20



Pastel blue
page 5/20

Chiara - Order codes

Metallic frames



Glossy bronze colour



Glossy gold colour



Glossy chromium colour



Glossy metal black colour



Bronze satin finish colour



Gold satin finish colour



Chromium satin finish colour



Gold satin finish colour

Metallic frames with glossy finish

Colour	No. modules	Code	Packing/ No. items
Bronze	2	2CSK0251CH	1/24
	3	2CSK0351CH	1/20
	4	2CSK0451CH	1/12
	7	2CSK0751CH	1/12
Gold	2	2CSK0253CH	1/24
	3	2CSK0353CH	1/20
	4	2CSK0453CH	1/12
	7	2CSK0753CH	1/12
Chromium	2	2CSK0215CH	1/24
	3	2CSK0315CH	1/20
	4	2CSK0415CH	1/12
	7	2CSK0715CH	1/12
Metal black	2	2CSK0217CH	1/24
	3	2CSK0317CH	1/20
	4	2CSK0417CH	1/12
	7	2CSK0717CH	1/12

Technical details and customization on page 5/62

Metallic frames with satin finish

Colour	No. modules	Code	Packing/ No. items
Bronze	2	2CSK0252CH	1/24
	3	2CSK0352CH	1/20
	4	2CSK0452CH	1/12
	7	2CSK0752CH	1/12
Gold	2	2CSK0254CH	1/24
	3	2CSK0354CH	1/20
	4	2CSK0454CH	1/12
	7	2CSK0754CH	1/12
Chromium	2	2CSK0216CH	1/24
	3	2CSK0316CH	1/20
	4	2CSK0416CH	1/12
	7	2CSK0716CH	1/12
Metal black	2	2CSK0218CH	1/24
	3	2CSK0318CH	1/20
	4	2CSK0418CH	1/12
	7	2CSK0718CH	1/12

Technical details and customization on page 5/62

Chiara - Order codes

Technopolymer frames



White colour

60038FF001



Sand colour

60039FF001



Stone colour

60031FF001



Volcano colour

60032FF001



Pastel yellow colour

60035FF001



Pastel orange colour

60034FF001



Pastel green colour

60036FF001



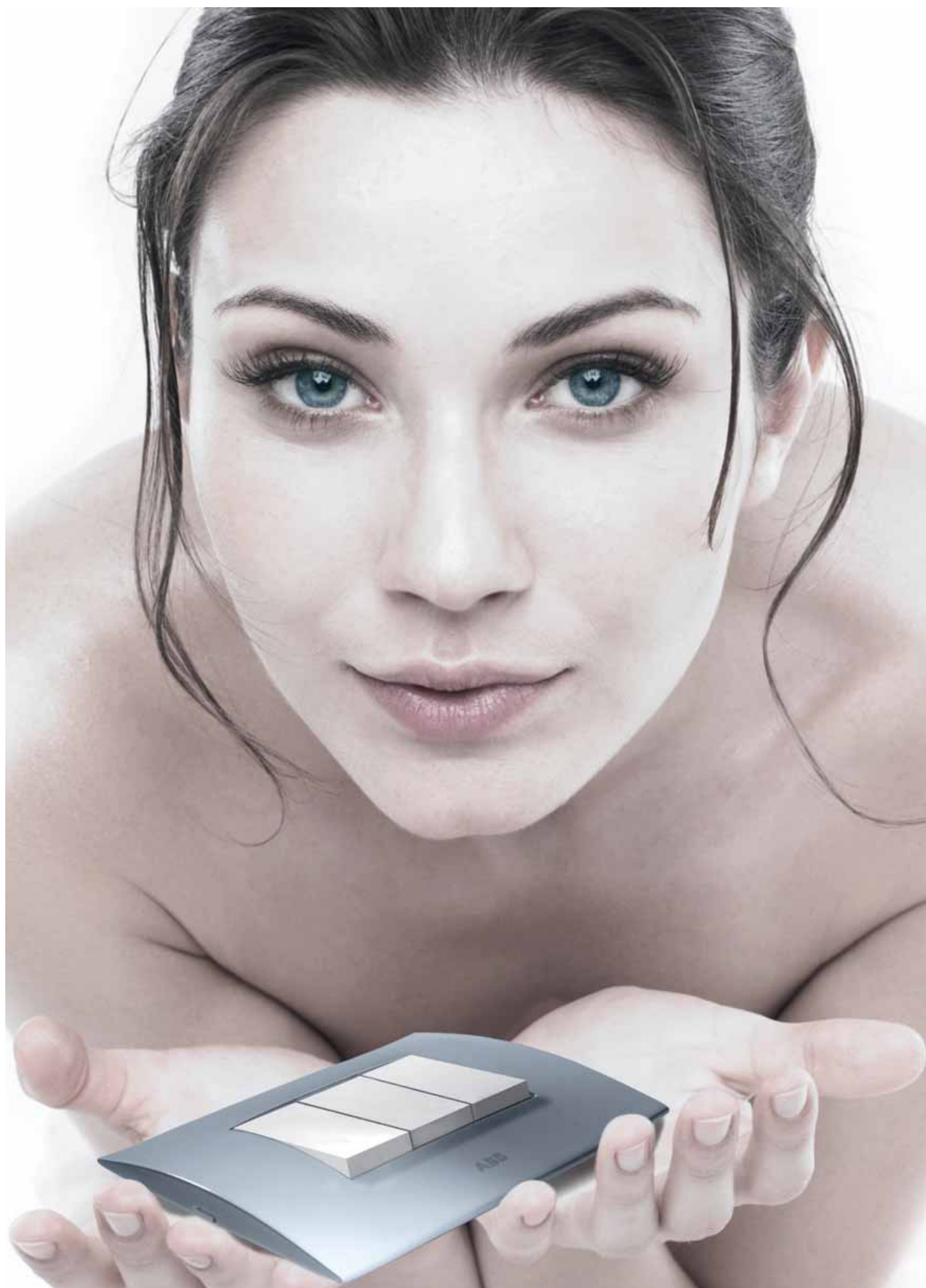
Pastel blue colour

60037FF001

Technopolymer frames

Colour	No. modules	Code	Packing/ No. items
White	2	2CSK0201CH	1/24
	3	2CSK0301CH	1/20
	4	2CSK0401CH	1/12
	7	2CSK0701CH	1/12
Sand	2	2CSK0202CH	1/24
	3	2CSK0302CH	1/20
	4	2CSK0402CH	1/12
	7	2CSK0702CH	1/12
Stone	2	2CSK0203CH	1/24
	3	2CSK0303CH	1/20
	4	2CSK0403CH	1/12
	7	2CSK0703CH	1/12
Volcano	2	2CSK0204CH	1/24
	3	2CSK0304CH	1/20
	4	2CSK0404CH	1/12
	7	2CSK0704CH	1/12
Pastel yellow	2	2CSK0211CH	1/24
	3	2CSK0311CH	1/20
	4	2CSK0411CH	1/12
	7	2CSK0711CH	1/12
Pastel orange	2	2CSK0212CH	1/24
	3	2CSK0312CH	1/20
	4	2CSK0412CH	1/12
	7	2CSK0712CH	1/12
Pastel green	2	2CSK0213CH	1/24
	3	2CSK0313CH	1/20
	4	2CSK0413CH	1/12
	7	2CSK0713CH	1/12
Pastel blue	2	2CSK0214CH	1/24
	3	2CSK0314CH	1/20
	4	2CSK0414CH	1/12
	7	2CSK0714CH	1/12

Technical details and customization on page 5/62



Chiara - Technical details

General information

Main technical data and reference standards for the devices in the range

Component	Reference standards	Basic electrical data*			Prolonged operation No. changes of position	Resistance to abnormal heat and fire	
		Test voltage withstand (V)	Insulation resistance (MW)	Breaking capacity or utilization category		Termopressione con biglia (°C)	Glow wire tests (°C)
Operating mechanisms	CEI 23-9 (EN 60669-1)	2000 at 50Hz for 1 minute	> 5	1.25 In (200 changes of position)	40000 at In 250V~ cosφ = 0,6)	125	850
Socket outlets	CEI 23-5/CEI 23-50/CEI 23-16 (EN 60884-1)	2000 at 50Hz for 1 minute	> 5	1.25 In (100 changes of position)	10000 at In 250V~ cosφ = 0,8)	125	850
Latching relay	CEI 23-9/CEI 23-62 (EN 60669-1/EN 60669-2-2)	2000 at 50Hz for 1 minute	> 5	-	50000 a In 250V~ cosφ = 0,6)	125	850
Monostable relays	CEI 94-4/CEI-EN 61810-1 (EN 60669-1/EN 60669-2-2)	2000 at 50Hz for 1 minute	> 5	1.25 In (200 changes of position)	50000 at In 250V~ cosφ = 0,6)	125	850
Automatic MCBs	CEI 23-3 (EN 60898)	2000 at 50Hz for 1 minute	-	1.5...3kA	8000	125	850
Automatic RCDs	CEI 23-95	2000 at 50Hz for 1 minute	-	1.5...3kA	4000	125	850
Supports and frames	CEI 23-9 (EN 60669-1)	-	-	-	-	75	650

*For the rated voltages and currents see the specifications for the individual part codes.

Clamping capacity of the terminals

Flexible wires		Rigid wires	
Min. 0.75 mm²	Max. 2x4 mm²	Min. 0.5 mm²	Max. 2x2.5 mm²

Cable traction resistance of terminals: > 50N
Adhesion of switches and device to the support: > 0.6J

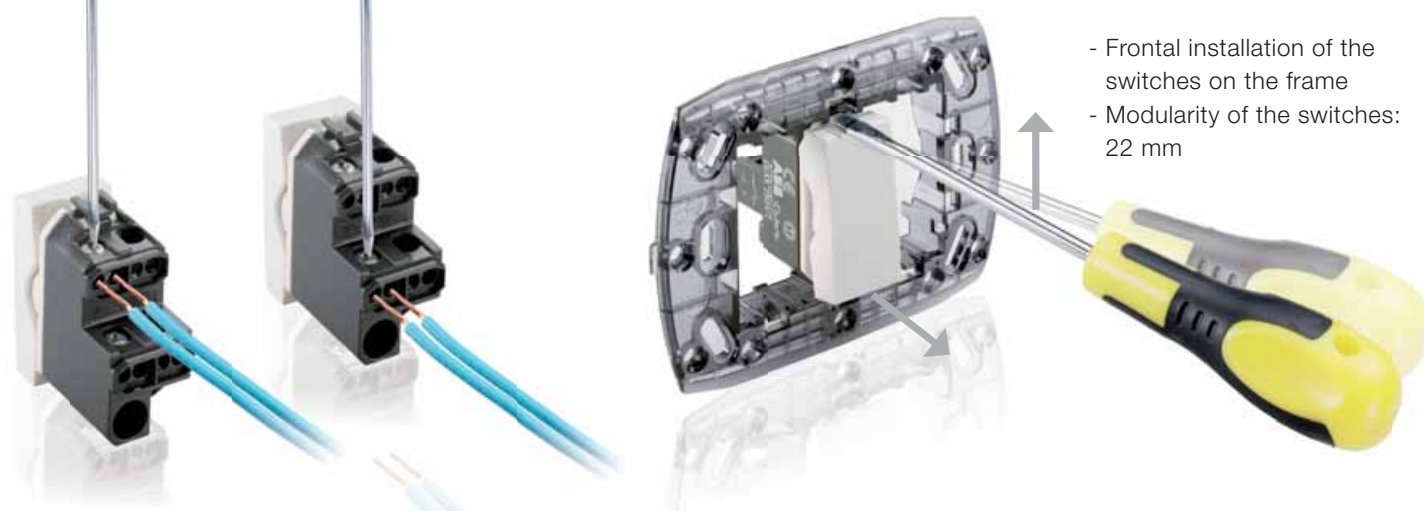
Chiara - Technical details

Installation solutions

Composition method for devices and supports



Installing and removing switches from the support



- Frontal installation of the switches on the frame
- Modularity of the switches: 22 mm

Specifications of screws and terminals

- Captive screws with open position captive screws with cross and slot head and clamping plate.
- Double input protected terminals for one or two conductors (rigid or flexible).

Chiara - Technical details

Installation solutions

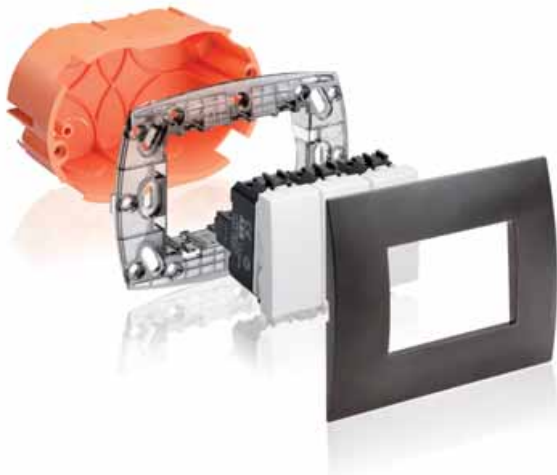
Installation on concrete walls



No. Modules	Screw distance	Recommended box
2 (with claws)	-	00 050
2 (with screws)	60 mm	00 050
3	83.5 mm	1SL006A00
4	108 mm	00 053
7	100 mm	1SL0064A00

Note: For further information on ABB boxes for concrete walls please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66)

Installation of plasterboard walls



No. Modules	Screw distance	Recommended box
2 (with screws)	-	10801/10802/10807
2 (with claws)	60 mm	10801/10802/10807
3	83.5 mm	10804
4	108 mm	Ave 254CG, BTicino PS564N, Gewiss GW24245 Vimar V71604
7	100 mm	Bticino PS567N Gewiss 24246 Vimar V71606

Note: For further information on ABB boxes for plasterboard walls please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66).

Protected installation with IP40/55 wall-mounted enclosures



IP40 wall-mounted enclosure

IP55 wall-mounted enclosure

No. Modules	IP40 enclosure	IP55 enclosure
1 (on 2-module enclosure)	2CSK2140CH	2CSK2155CH
2	2CSK2240CH	2CSK2255CH
3	2CSK2340CH	2CSK2355CH
4	2CSK2440CH	2CSK2455CH

The watertight enclosures allow the direct assembly of devices without the aid of supports. The devices are inserted from the rear. See technical details on page 5/57. For further information on IP40/IP55 wall-mounted enclosures, please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials (see page 5/66).

Protected installation with watertight escutcheon plate



IP55 wall-mounted escutcheon plate

No. Modules	IP55 escutcheon plate
2 (on a square or round box with screws, center distance 60mm)	2CSK3255CH
3	2CSK3355CH

Note: The watertight escutcheon plates provide a self-supporting solution that allows direct assembly of devices without the aid of supports. The devices are inserted from the rear.

Chiara - Technical details

Installation solutions

Installation on raised floors with Undernet under-floor turrets



No. Modules	Dedicated adapter	Undernet tower
5 (max 20 contact blocks)	2CSK1625CH	10900 e 10901
6 (max 12 contact blocks)	2CSK1626CH	10902 e 10903

Note: The dedicated adapter provides a self-supporting solution that allows direct assembly of devices without the aid of supports. The devices are inserted from the rear. The use of finishing plates is not required.
For further information on Undernet under-floor turrets, please refer to the catalog 1SLC006001D0903 - Under-floor Distribution Systems (see page 5/66).

Installation on surface mounted boxes



No. Modules	Wall box	Frame
2	42 096	Use a 2M self-supporting frame
3	41 823	Use a 3M self-supporting frame
3	41 822	Use a 3M self-supporting frame
4	41 830	Use a 4M self-supporting frame

Note: The self-supporting frames allow the direct assembly of devices without the aid of supports. The devices are inserted from the rear.
For further information on the wall boxes and duct systems, please refer to the catalog 1SLC800001D0905 - Plastic and Metal Duct Systems (see page 5/66).

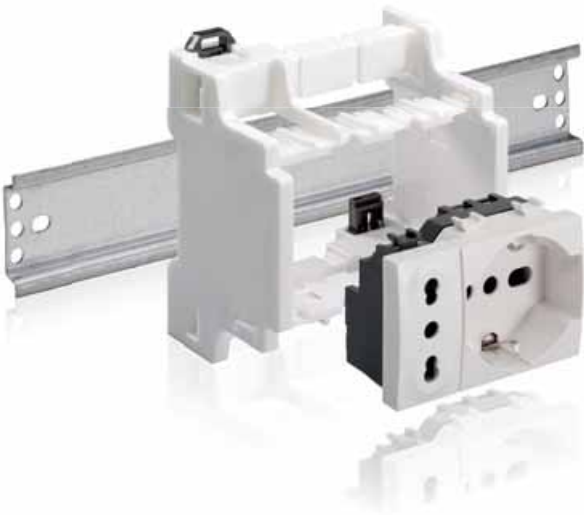
Installation on Lusy table towers



No. Modules	Lusy tower	Frame
4	10 507	Use a 4M self-supporting frame

Note: The self-supporting frames allow the direct assembly of devices without the aid of supports. The devices are inserted from the rear.
For further information on the Lusy table towers, please refer to the catalog 1SLC006001D0903 - Under-floor Distribution Systems (see page 5/66).

Installation on DIN rail adapter



No. Modules	Dedicated adapter
1	2CSK1608CH
2	2CSK1608CH
3	2CSK1608CH

Note: The DIN rail adapter allows devices to be assembled without the aid of supports. The devices are inserted from the front. See technical details on page 5/59.

Chiara - Technical details

Selection of lights

5

Control devices		Lamps
2CSK1001CH	Single-pole switch, 16A - 250V~	<div>Filament</div> <div>2CSK1613CH White</div> <div>230V</div> <div>0.4W</div>
2CSK1002CH	Double-pole switch, 16A - 250V~	
2CSK1004CH	Single-pole switch, 16A - 250V~, 2 modules	
2CSK1003CH	Single-pole two-way switch, 16A - 250V~	
2CSK1007CH	Single-pole two-way switch, 16A - 250V~, 2 modules	
2CSK1010CH	Intermediate switch, 16A - 250V~	
2CSK1008CH	Intermediate switch, 16A - 250V~, 2 modules	
2CSK1005CH	Single-pole push switch NO, 16A	
2CSK1016CH	Single-pole push switch NC, 16A	
2CSK1020CH	Single-pole push switch NO with cord pull, 16A with 2.25 m cord	
2CSK1021CH	Single-pole push switch NC with cord pull, 16A with 2.25 m cord	
2CSK1022CH	Single-pole push switch 1 NO and 1 NC, 16A, with ON	
2CSK1023CH	Single-pole push switch 1 NO and 1 NC, 16A, with OFF symbol	
2CSK1024CH	Single-pole push switch NO, 16A, with red diffuser	
2CSK1025CH	Single-pole push switch NO, 16A, with green diffuser	
2CSK1026CH	Single-pole push switch NO, 16A, with orange diffuser	
2CSK1027CH	Single-pole push switch NO, 16A, with white diffuser	
2CSK1028CH	Single-pole push switch NO, 16A, with BELL	
2CSK1029CH	Single-pole push switch NO, 16A, with KEY	
2CSK1030CH	Single-pole push switch NO, 16A, with STAIR LIGHT	
2CSK1031CH	Single-pole push switch NO, 16A, with backlit label holder plate	
2CSK1032CH	Single-pole push switch NO, 16A, with backlit label holder plate, 3 modules	

Signalling devices		Lamps
2CSK1310CH	Warning light, ORANGE colour	<div>Filament</div> <div>2CSK1613CH White</div> <div>230V</div> <div>0.4W</div>
2CSK1311CH	Warning light, WHITE colour	
2CSK1312CH	Warning light, RED colour	
2CSK1313CH	Warning light, GREEN colour	



Chiara - Technical details

Control devices

Switches, two-way switches, intermediate switches and pushbuttons

Area of application

Control (on and off) of ohmic-inductive loads:

- with filament and fluorescent lamps (corrected and uncorrected);
- dedicated circuits for powered equipment (aspirators, range hoods, shutters, blinds, fans, etc..) and controllable outlets.

To eliminate architectural barriers in creating installations, we recommend the use of luminous controls (Article 4 of Italian Ministerial Decree no. 236 del 14.06.1989).

Technical specifications

Rated voltage	250V~
Rated current	10A (16A for pushbuttons)
Opening distance of the contacts	> 3 mm
Dielectric strength	> 2000V~

Reference standards

LV Directive EN 60669-1.

Customization of the control device keys

The illuminable keys of the Chiara wiring accessories' range are supplied with all most widely used functional symbols.

Wiring diagrams

The diagrams provided below are the most widely applied installation solutions in creating lighting points.

Backlighting of the control devices

Night-time location



Characteristics

- It allows the command key to be identified in the dark.
- We recommend the use of white, blue, green or red Chiara lamps.

Applications

- Bedrooms
- Corridors

Functional signalling



Characteristics

- This allows the command key to be identified and the ON/OFF status of a circuit to be signalled in the dark.

Applications

- General services of a building complex (entrance halls, stair lights, landings etc.)
- Public environments (cinemas, theatres etc.)

Signalling with symbols



Characteristics

- This allows the command key and its specific function to be identified in the dark.

Applications

- Warehouses, shops, offices
- Hotels
- Nursing homes, hospitals

With warning light



Characteristics

- Allows the ON/OFF status of an appliance or a lighting circuit, even at a distance.
- Visible from both a front and side position.

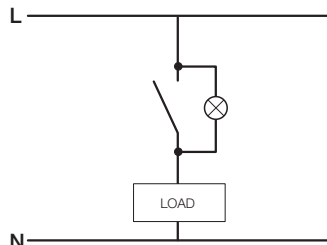
Applications

- Signalling the switching on of lighting points outside the environment in which the control device is installed

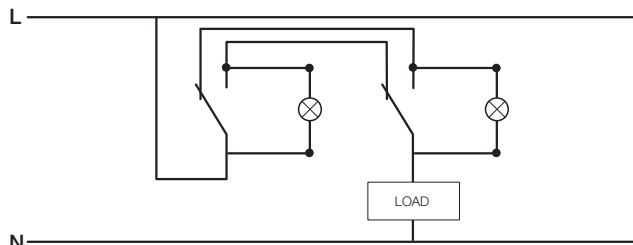
Chiara - Technical details

Control devices

Example of functional signalling



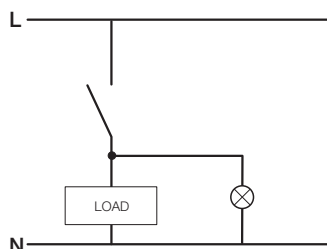
Warning light on when the switch is OFF (if the switch is in the ON state, the warning light is off while the load is ON).



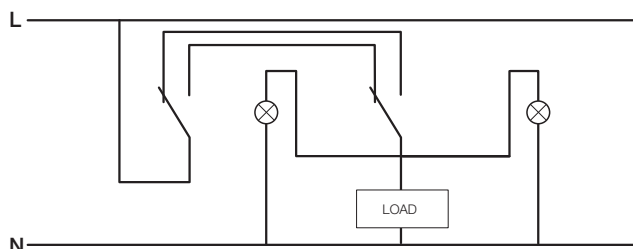
The two warning lights switch on and off respectively when the load is in the OFF and ON state.

5

Example of remote signalling



Warning light placed in parallel to the load, of which indicates the ON/OFF state (it is on when the switch is ON).



Two warning lights placed in parallel with the load (they switch on and off with it).

Instructions for installation in systems with relays and illuminable push switches

The lamps must be connected in parallel.

Using single-pole latching relays 2CSK1012CH, it is possible to connect up to four fluorescent lamps: by adding a $0.94\mu\text{F}$ capacitor to the heads of the relay, up to twelve fluorescent lamps can be connected.

Using double-pole latching relays 2CSK1014CH, it is possible to connect two fluorescent lamps: by adding a $1.41\mu\text{F}$ capacitor to the heads of the relay, up to twelve fluorescent lamps can be connected.

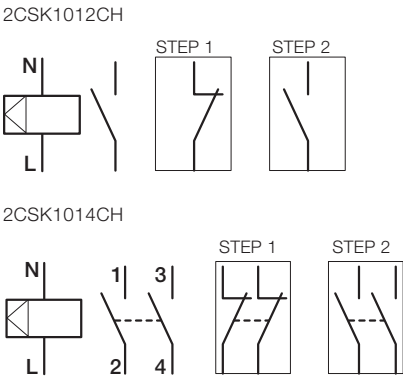
Relays

Relay with latching operation for control and adjustment from multiple lamp points by means of single-pole push switches with NO (normally open) contact.

Technical specifications	
Power supply voltage (coil)	230V - 50/60Hz
Output contact	2CSK1012CH 1NO / 2CSK1014CH 2NO; 10A (AC1) / 7A (AC15) - 250V~

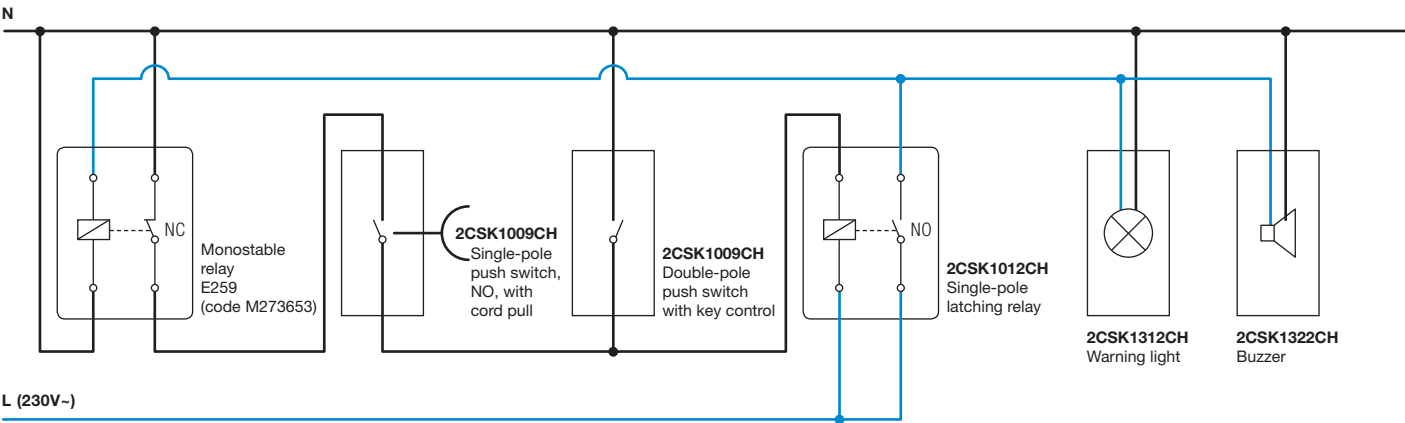
Reference standards
EN 60669-1, EN 60669-2-2.

Wiring diagrams



Examples of application

The flush-mounted relays of the Chiara wiring accessories' range can be used to implement numerous functions. The example illustrates a disabled bathroom calling system with cancellation via a key operated push switch:



Plug sockets for dedicated lines

Plug sockets for dedicated lines allow outlet points to be differentiated according to their particular application, avoiding incorrect connection of unsupported appliances. Different coloured enclosures (red, orange, green) distinguish them from common power sockets.

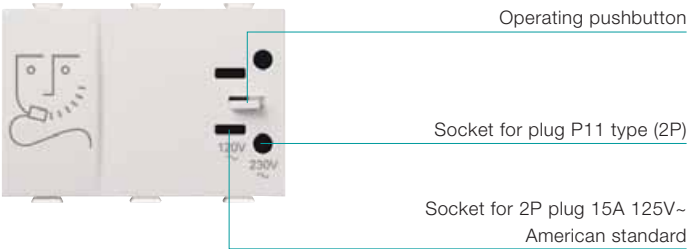
There are as yet no standard regulations on the correspondence between the colour of the socket and the type of power supply. In order to distinguish the area of application, the following usage customs are adopted.

- Red:** continuous power supply with UPS (uninterruptible power supply) through an insulating transformer.
- Orange:** power supply protected by network-generator unit through an insulating transformer.
- Green:** safety power supply with network/generator unit.

Special sockets

Description	Code
2P shaver socket with insulating transformer. Power supply 230V~ - 50/60Hz. Output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket P11 type)	2CSK1113CH

Components



The shaver socket incorporates an insulating transformer with a power rating of 20 VA, protected against overload and resistant to short-circuits.

Power supply is guaranteed by a pushbutton that is operated automatically whenever the plug is inserted in the socket.

The secondary circuit, to which the cells of the socket are connected, is isolated from the primary power supply circuit by double insulation:

additional protections (shutter devices) on the cells of the socket are therefore superfluous.

The socket is suitable for the insertion Italian standard plugs of the P11 type (2P) and American standard plugs (2P). The shaver socket is protected against overload with a thermal interruption device without auto-reclosing.

After the protection is tripped, the cells of the socket are not energized. To reclose the circuit, the plug of the device that caused the overload must be disconnected, waiting a few minutes in order to allow the transformer to cool down.

Technical specifications	
Power supply	230 V~ 50-60 Hz
Output voltage	230 V~ for plugs P11(2P) 2,5 A 120 V~ for plugs 2P 15 A 125 V~ American standard with non-polarized flat pins
Available power	20VA
Operation with auto-protected	temperature

Reference standards

EN 61558-2-5, EN 61000-3-2, EN 55014-1, EN 55014-2.

Chiara - Technical details

Socket outlets

Description	Code
Flush-mounted USB charger 500-650mA, with male type A connector, power supply 230~ 50/60Hz, output voltage 5V DC	2CSK1160CH

Components

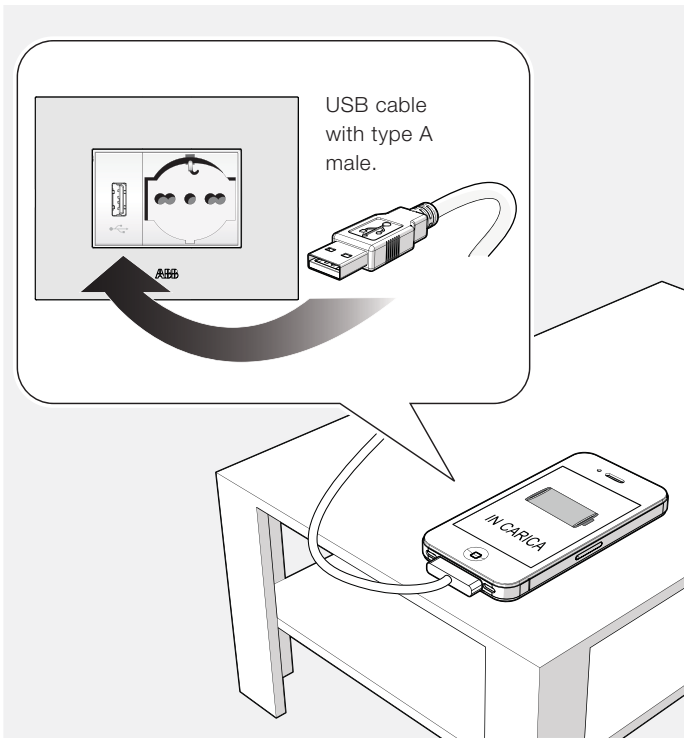


Operating method

Connect the USB cable with the type A male connector to the charger and the opposite end to the device to be powered. Type A, B, miniUSB and microUSB USB connectors can be used indifferently. The device is now being charged.

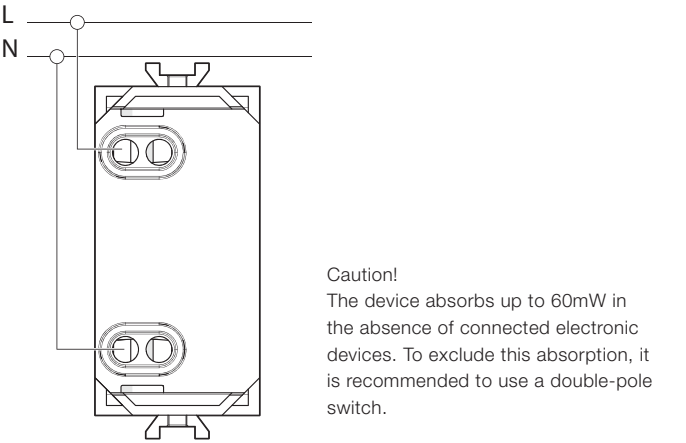
Caution: the device supplies power according to the USB data transmission protocol, with a maximum current of 650mA at 5V $\overline{\text{---}}$. Some devices may require a higher power supply current. Look up the manual of the connected device to check its absorption specifications. The charging time depends on the connected device and may vary compared with the original charger.

Examples of application



The flush-mounted USB charger allows you supply and recharge the most common portable electronic devices. Using only a USB cable with Type A male connector it is possible to power mobile phones, smartphones, tablets and cameras that support standard USB power supply (up to 650mA), independently of the manufacturer.

Wiring diagrams



Technical specifications	
Power supply	125-250V - 50/60 Hz
Input current	5A 230V
Output current	500-650mA at 5V DC
Max absorption in standby	60mW
Operating temperature	-20 +50°C
Storage temperature	-20 +80°C
Protection class	IP20
Place of use	indoors, dry
The device is protected against short-circuits by an internal fuse (not replaceable).	

Interlocked socket outlets

Description	Code
2P+E socket outlet, 16A - 250V~, interlocked with MCB, P17/11	2CSK1324CH
2P+E socket outlet, 16A - 250V~, interlocked with MCB, P30	2CSK1325CH
2P+E socket outlet, 16A - 250V~, with RCD 10mA, P17/11	2CSK1326CH

Components

Interlocked socket outlets with automatic MCB (PIA)




Interlocked socket outlets with automatic MCD (PID)



Interlocked socket outlets with automatic MCB (PIA)

These sockets are suitable for installation in the system terminations for protection of the load supplied from the outlet against dangers of short circuits and overloads..

Interlocked socket outlets with automatic RCD (PID).

These sockets are suitable for installation in the system terminations for protection of the load supplied from the outlet against dangers of short circuits and overloads, as well as protection of the user against contact voltages. 

The residual current function with sensitivity of 10 mA also acts in the presence of non-sinusoidal fault currents (alternating currents mixed with unidirectional pulsating currents).

In compliance with installation standards, they are particularly suitable for the protection of:

- terminal user devices in rooms where there is a greater risk of electrocution (bathrooms, showers, etc.)
- sockets that power class 1 users with electronic circuits
- sockets for portable user devices in domestic or similar environments (irons, drills, etc.).

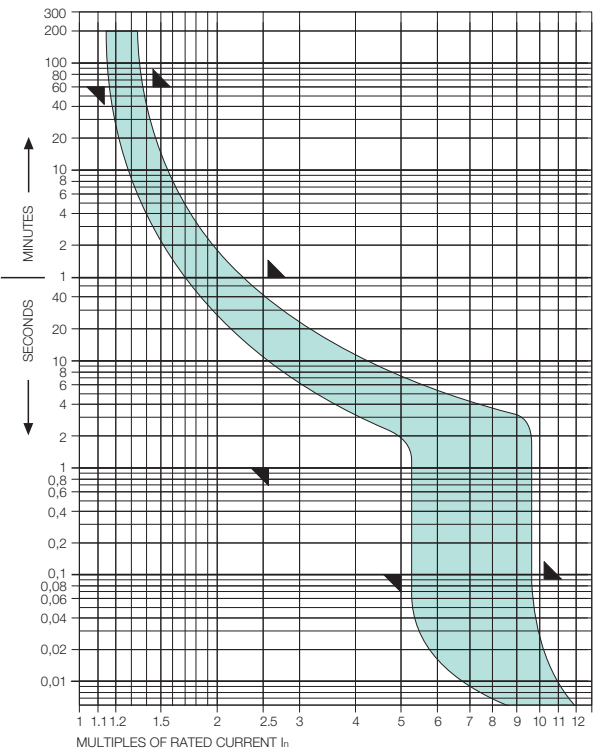
Operation

The MCB or RCD interlocked with the socket energises the cells of the socket only after the plug has been inserted and automatically cuts off voltage to the socket before the plug is fully extracted.

Therefore the plug is always inserted and extracted without an electrical arc.

The lever of the circuit-breaker can be closed only after the plug is inserted; without the plug, the lever operates without effect and does not close the switch.

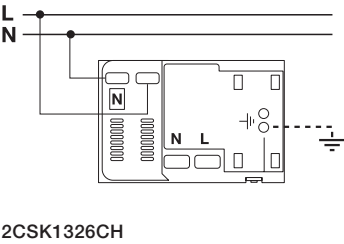
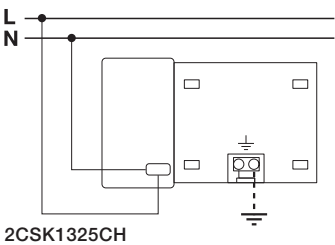
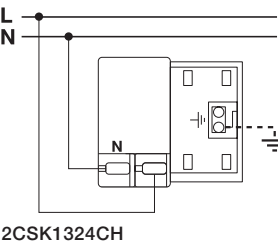
Current-time tripping diagrams for circuit-breakers of the Chiara range



Chiara - Technical details

Socket outlets

Wiring diagrams



Technical specifications	
Power supply voltage	230 V~ - 50 Hz
Residual current (sensitivity)	Δn 10 mA
Operation dependent on the line voltage	they must be installed downstream of a general residual current circuit-breaker
Thermomagnetic tripping	with characteristic C
Double-pole isolation	with 1 protected pole
Breaking capacity	3000 A
Rated current corresponding to the standard of the socket	
Type A RCBO for alternating and unidirectional pulsating currents	
Front LED with green light indicates normal operation with the presence of network power supply and contact closed	

Reference standards:

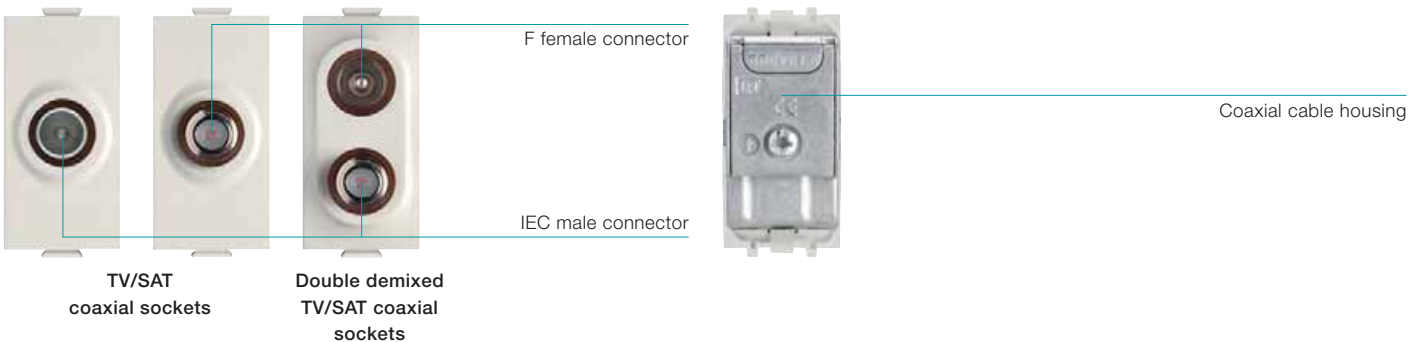
Interlocked socket outlets with MCB:
LV Directive, Standard CEI 23-97.
Interlocked socket outlets with RCD:
LV Directive, Standard CEI 23-96.

TV/SAT sockets

The TV/SAT coaxial sockets for the Chiara series offer a complete range of products for implementing the terminal part of modern antenna systems. Manufactured fully from die cast Zama, they include a pressure terminal with safety screw in order to guarantee proper grip of the cable. Individual sockets

are available with male IEC or female F bushing, and double demixed sockets with both connection possibilities. Various levels of attenuation are available, ensuring that solutions are available for every type of installation.

Components



Attenuation values of the TV/SAT coaxial sockets

Code	Bushing	Passing attenuation [dB]			Bridging attenuation [dB]			Inverse attenuation [dB]	Direct current transit
		5÷40 MHz	47÷862 MHz	950÷2402 MHz	5÷40 MHz	47÷862 MHz	950÷2400 MHz		
2CSK1117CH	Male IEC Terr.	-	-	-	0,5	0,5	0,5	-	NO
2CSK1118CH	Male IEC Terr.	-	-	-	0,5	0,5	0,5	-	YES
2CSK1132CH	Male IEC Terr.	≤2	≤2	≤3	≤7	≤7	≤8	≥35	NO
2CSK1136CH	Male IEC Terr.	≤2	≤2	≤2,5	≤10,5	≤10	≤11	≥35	NO
2CSK1137CH	Male IEC Terr.	≤1,5	≤1,5	≤2,5	≤14,5	≤14	≤14,5	≥35	NO
2CSK1138CH	Male IEC Terr.	≤1,5	≤1,5	≤2,5	≤18,5	≤18	≤18,5	≥35	NO
2CSK1119CH	Female SAT	-	-	-	≤0,5	≤0,5	0,5	-	YES

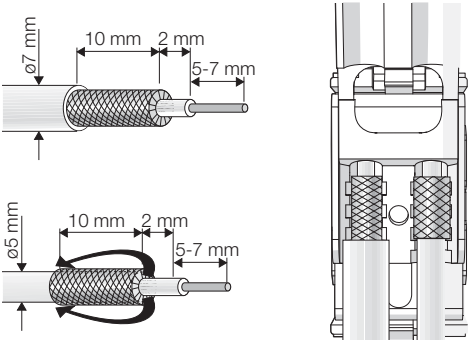
Attenuation values of double demixed TV/SAT coaxial sockets

Code	Bushing	Passing attenuation [dB]		Bridging attenuation [dB]		Inverse attenuation [dB]	Direct current transit
		TV	SAT	TV	SAT		
2CSK1133CH	Male IEC Terr. Female SAT	-	-	≤2	≤2	-	YES
2CSK1120CH	Male IEC Terr. Female SAT	≤4	≤5	≤6,5	≤7	≥35	YES
2CSK1132CH	Male IEC Terr. Female SAT	≤3	≤4,5	≤10	≤11	≥35	YES
2CSK1131CH	Male IEC Terr. Female SAT	≤2	≤3	≤14	≤15	≥35	YES
2CSK1139CH	Male IEC Terr. Female SAT	≤1	≤2	≤18	≤19	≥35	YES

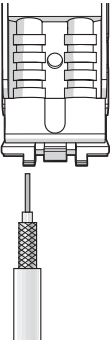
Chiara - Technical details

Socket outlets

Instructions for installation

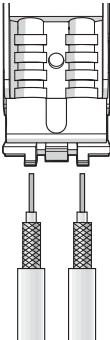


Direct socket



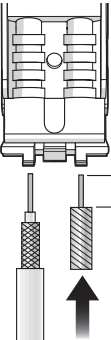
- 2CSK1117CH
- 2CSK1118CH
- 2CSK1119CH
- 2CSK1133CH

Feedthrough socket



- 2CSK1130CH
- 2CSK1131CH
- 2CSK1132CH
- 2CSK1135CH
- 2CSK1136CH
- 2CSK1137CH

Feedthrough socket converted to terminal socket



- 2CSK1138CH
- 2CSK1139CH

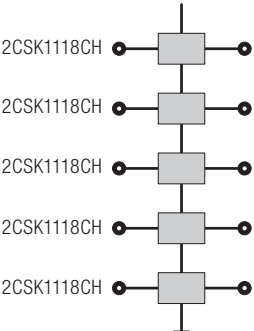
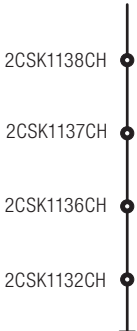
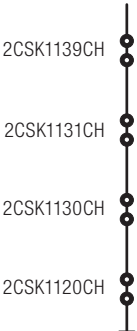
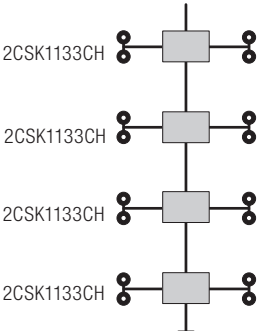
Technical specifications

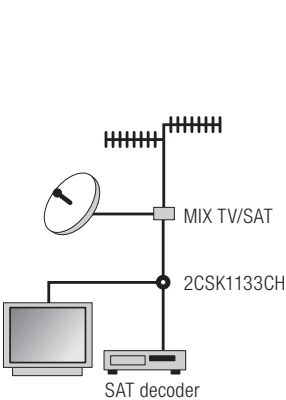
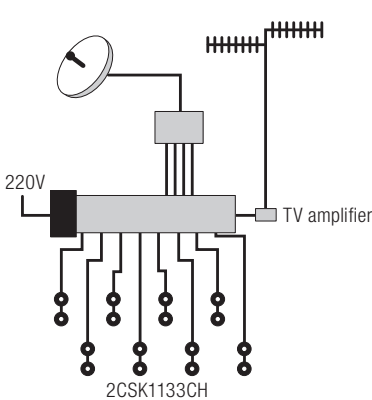
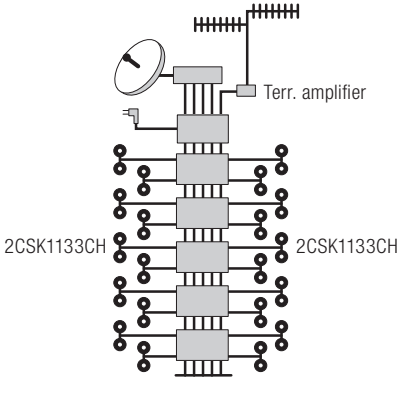
Manufactured from die cast Zama.
Pressure terminal.
Available with bushing of type: male CEI, female F.

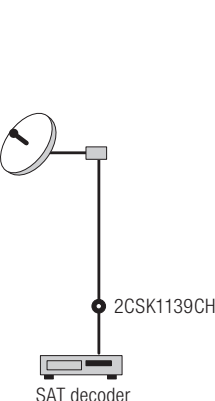
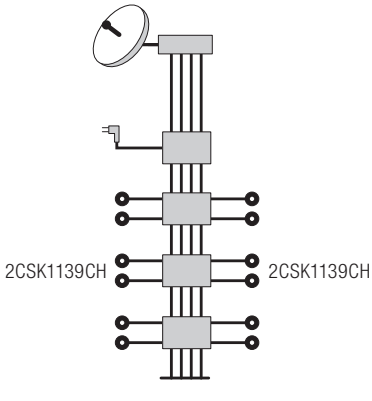
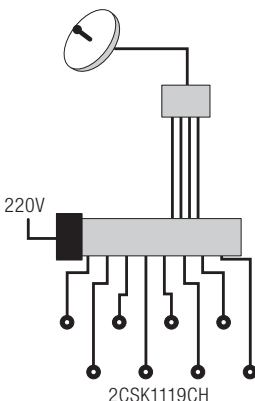
Reference standards

EN 50083-1, EN 50083-2, EN 50083-4

Wiring diagrams

TV		TV/SAT	
TV system with branched sockets from the central unit	TV system with feedthrough sockets from the central unit	TV/SAT system with feedthrough demixed sockets from the central unit	TV/SAT system with branched demixed sockets from the central unit
			
Closing resistance 75ohm	Closing resistance 75ohm	Closing resistance 75ohm	Closing resistance 75ohm

TV/SAT		
Mixed TV/SAT system, single consumer	Multiswitch radial TV/SAT system	SAT system, single consumer
		

SAT		
SAT system, single consumer	SAT and feedthrough Multiswitch system	SAT and radial Multiswitch system
		

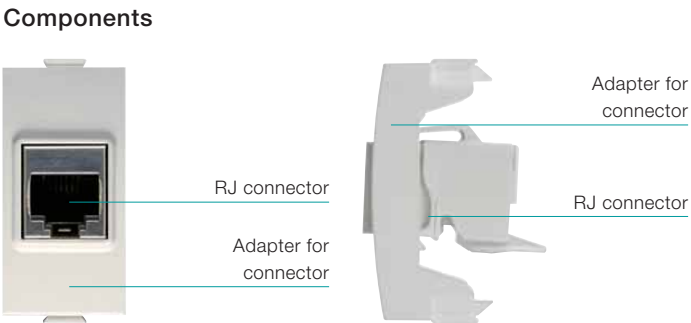
Chiara - Technical details

Socket outlets

Network and telephone sockets

The range includes devices for the implementation of telephone and computer networks, RJ11 4-contact telephone connectors for telephones, telefax, modems and RJ12 6-contact telephone connectors for intercommunicating telephone installations.

RJ45 category 5e and 6 connectors are also available. These devices allow computer equipment (computers, modems, printers, etc) to be connected in a network and connection of multimedia devices.



Code	Connector type	No. contacts	Cable type	Shielded	Category	Speed
2CSK1121CH	RJ11	4	twin core	NO	3	up to 16 Mb/s
2CSK1122CH	RJ12	6	twin core	NO	3	up to 16 Mb/s
2CSK1124CH	RJ45	8	UTP	NO	5e	up to 100 Mb/s
2CSK1125CH	RJ45	8	FTP	YES	5e	up to 100 Mb/s
2CSK1127CH	RJ45	8	UTP	NO	6	up to 10 Mb/s
2CSK1128CH	RJ45	8	FTP	YES	6	up to 10 Mb/s

FTP = cable shielded with aluminium tape
UTP = unshielded cable

Instructions for installation

Unshielded connectors:

1. wire the connector making sure that the connection terminals match;
2. operate the lever wiring device on the connector;
3. latch the connector on the adapter and proceed with the installation on the frame.

Shielded connectors:

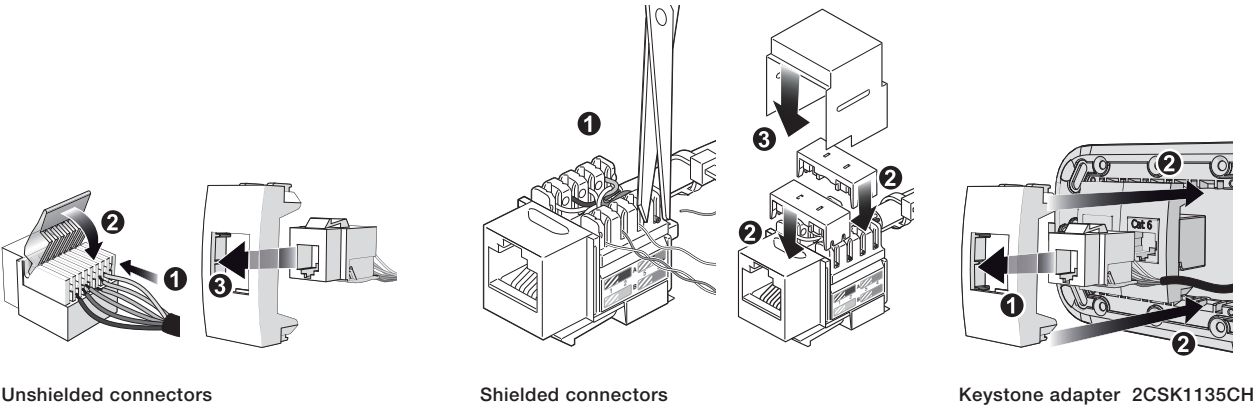
1. wire the connector making sure that the connection terminals match;
2. position the cover of the connector and squeeze with pliers to make sure the contacts are tight;
3. apply the shielding, ensuring insulation of the connector;
4. latch the connector on the adapter and proceed with the installation on the support.

Keystone adapter 2CSK1135CH:

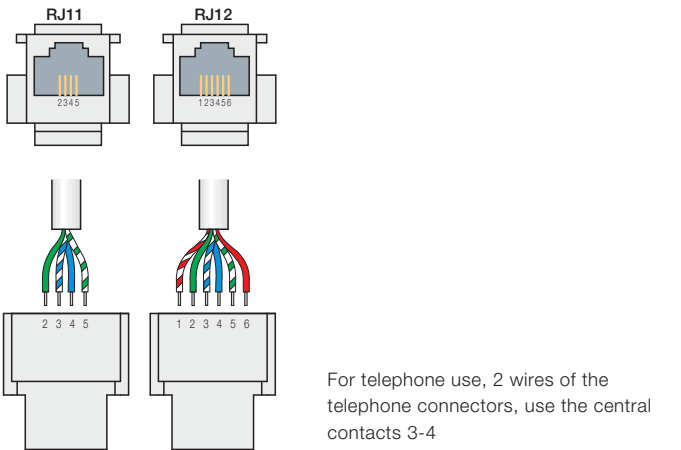
the structured wiring systems for data transmission are distinguished by their flexibility of use, installation independent of location and the use of the terminal outputs. The suppliers of components for wiring, when dealing with installations of a certain complexity and size, must be in able to show certification of conformity of the installation, directly or through accredited installations.

ABB meets this requirement with the adapter of the Chiara wiring accessories' range, which is compatible with various Keystone coupling connectors available on the market and enables integration between the Chiara wiring accessories' range and data transmission components of systems with structured wiring.

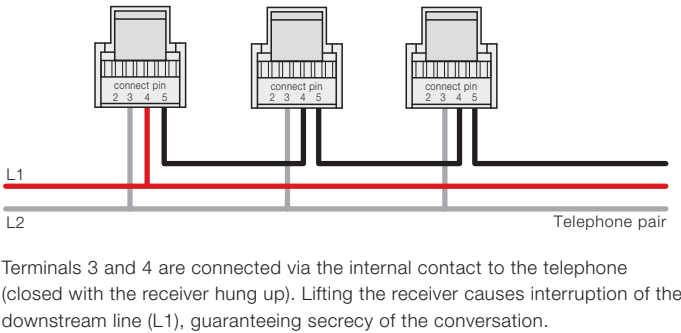
1. latch the connector on the adapter and proceed with the installation on the frame.



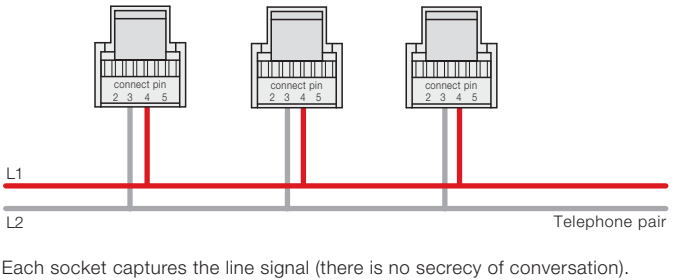
Wiring diagrams for RJ11 and RJ12 telephone connectors



Connection in series

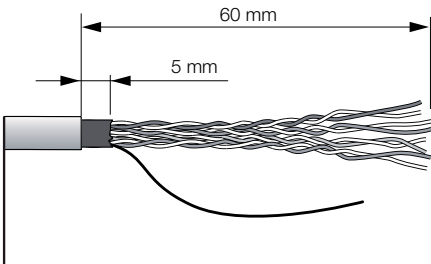
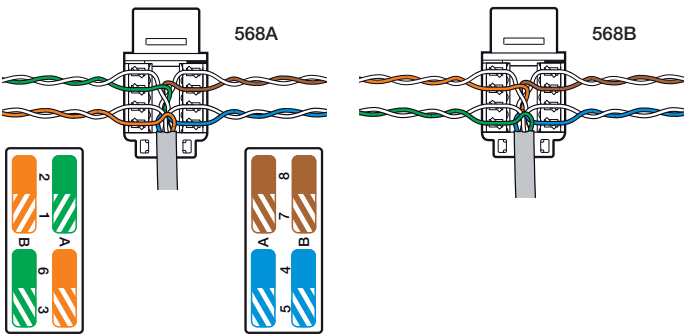
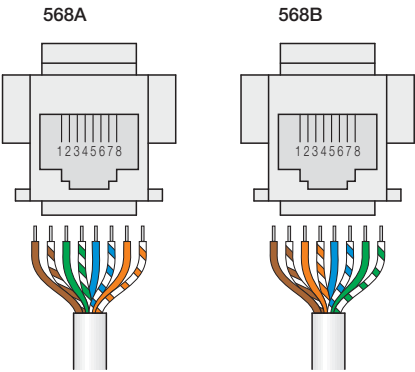


Connection in parallel



Wiring diagrams for RJ45 data connectors

To obtain the EIA/TIA 568A or 568B configuration included below, follow the colour code shown on the terminal box.



Technical specifications

Connections	With perforated insulation
Conductors	non-buttet, inserted in the appropriate blade slots

Reference standards

EN 50083-1, EN 50083-2, EN 50083-4, ISO 11801.

Chiara - Technical details

Protection devices

Fuse holders and overvoltage limiters

Description	Code
Fuse holder, for fuses Ø5x20 / Ø6.3x32 mm, max. 16A	2CSK1301CH

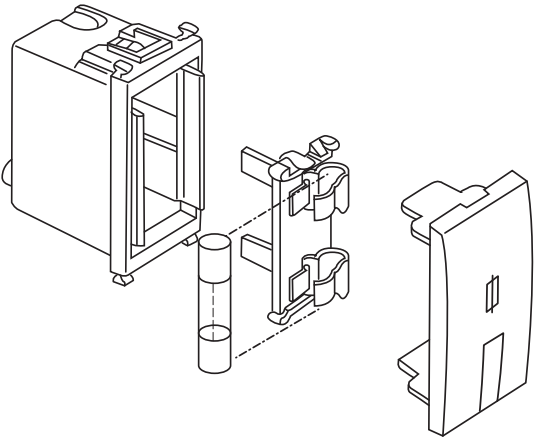
Components



Replacement fuses

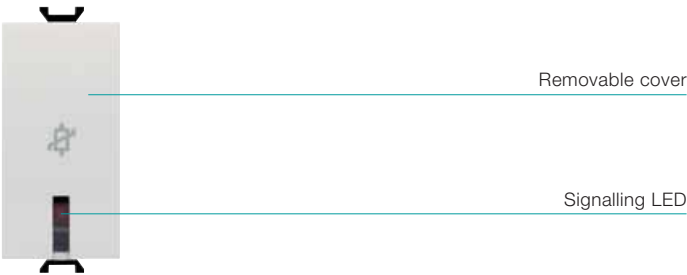
Fuses with dimension Ø5x20mm or Ø6.3x32 mm can be installed.
The use of the fuses on page 4/23 is recommended.

Replacement of the fuse
After removing the removable cover with a screwdriver, proceed with replacement as in the drawing:



Description	Code
Overvoltage limiter, 75J, 230V~	2CSK1315CH

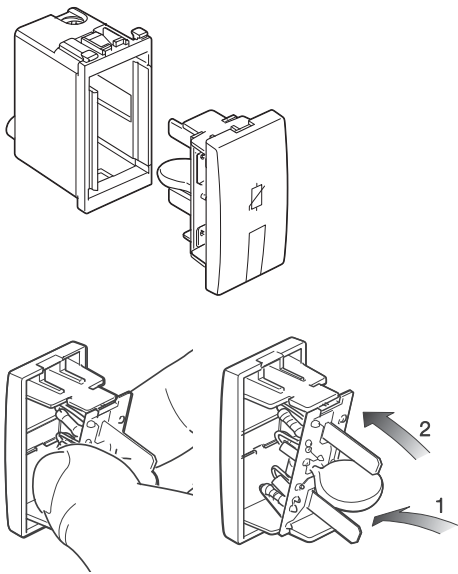
Components



This device provides protection for power supply sockets for all types of household appliances and in particular for those containing electronic components (Hi-Fi, TV, computers, video recorders, programming mechanisms, cash registers etc.) from damage caused by over-voltages present in power supply networks.

Instructions for installation and operation

The protection device is housed in the removable front cover. To replace it, after disconnecting the voltage from the installation, extract the cover from the limiter and separate the SPD block from the plastic cover, levering it with a screwdriver. Replace it with spare part 2CSY1302MY.

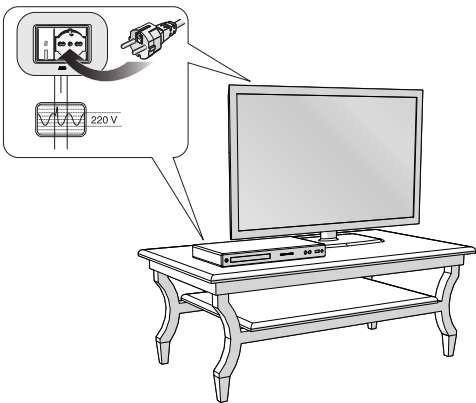


Functions

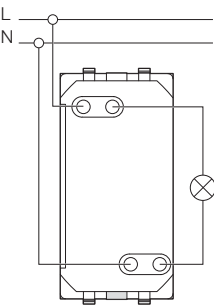
When the red warning light is on, it indicates that the protection has tripped and needs to be replaced (the load remains energised but it is not protected).

Examples of application

Over-voltages in domestic networks can be caused both by atmospheric interference and by control, operation or programming of connected inductive loads (air conditioners, burner motors, water pumps, reactors of fluorescent or discharge lamps, washing machines, etc.).



Wiring diagram



Technical specifications	
Residual current limiting	protection (line-to-neutral)
Rated voltage (Un)	120-230 V~ 50/60 Hz
Number of ports	1
Rated load current IL	16 A
Tensione max continuativa (Uc)	250 V~
Test class	III
Protection level (Up)	< 1,2 kV
Test voltage of combined wave generator Uoc	2,5 kV
Rated flashover current (In)	1 kA (8/20 ns) 20 times
Max flashover current (Imax)	2 kA (8/20 ns) once
Temperature range	-5 °C - +40 °C
Internal integrated protection	fuse

Reference standards

LV Directive, Standard EN 61643-11

Chiara - Technical details

Protection devices

Miniature circuit-breakers and Residual current circuit-breakers

Description	Code
Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	2CSK1304CH
Automatic MCB, 1P+N, C10, breaking capacity 3kA	2CSK1305CH
Automatic MCB, 1P+N, C16, breaking capacity 3kA	2CSK1306CH
Automatic RCD, 1P+N, C6 - 10 mA, breaking capacity 1.5kA	2CSK1307CH
Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2CSK1308CH
Automatic RCD, 1P+N, C16 - 10 mA, breaking capacity 3kA	2CSK1309CH
Automatic RCD, 1P+N, C6 - 30 mA, breaking capacity 1.5kA	2CSK1328CH
Automatic RCD, 1P+N, C10 - 30 mA, breaking capacity 3kA	2CSK1329CH
Automatic RCD, 1P+N, C16 - 30 mA, breaking capacity 3kA	2CSK1330CH

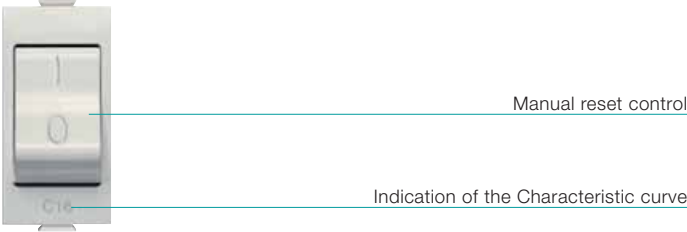
5

Components

Automatic RCD



Automatic MCB



Automatic MCBs and automatic RCDs provide protection against over-currents and earth fault currents of terminal circuits. Protection class with the device embedded in smooth vertical walls with the associated support, frame and blank covers, if required: IP41.

Instructions for installation and operation

Use in dry and dust-free locations.

- Temperature between -5 °C and +40 °C..
- Suitability for installation on the supply side of a socket or device for the protection against overloads and short circuits of the equipment and, at the same time, for protection of the users against contact voltages.
- The sensitivity (operating residual current) of 10mA and

the suitability for operation also in the presence of non-sinusoidal fault currents (alternating currents mixed with unidirectional pulsating currents) allow the protection devices of the Chiara range to be classified as “type A RCBOs” (identified by the symbol), particularly suitable for the protection of:

- terminal uses in rooms where there is a greater risk of electrocution (bathrooms, showers, kitchens etc.), as prescribed by the CEI standards;
 - class I consumer power sockets with electronic circuits (computers and accessories, electronic scales, electronic typewriters, cash registers etc.). In domestic and service industry networks non-sinusoidal fault currents are often present because of the use of electronic boards in domestic appliances.
- The electromagnetic part of the circuit breakers guarantees protection against overloads and short circuits; the residual current part of the devices, for current values of 10mA, guarantees protection of persons against the contact voltages.
 - Closing the circuit: manually press the lever of the circuit breaker at the “I” symbol.
 - Opening the circuit:
 - manually, by pressing the lever of the circuit breaker at the “O” symbol or the yellow test button (test);
 - automatically, due to thermal (overload), magnetic (short-circuit) or residual current (earth fault current) tripping.
 - The device must not be used as a control breaker.
 - To check that the circuit breaker is installed and behaving correctly, the yellow test button (test) must be pressed every month. If the device is correctly installed and powered, the circuit breaker trips; if it does not, you must immediately inform the installation technician because safety will be compromised. After the test, you need to press the main key near the “I” symbol in order to reset the circuit breaker.
 - Thermomagnetic tripping with characteristic “C” (see the current-time tripping diagram provided below).
 - Double-pole operation with one protected pole + N, type A for alternated fault currents and unidirectional pushbuttons.
 - Operating residual current (sensitivity) $I_{\Delta n}$ 10mA; the circuit breaker must be connected according to the electrical diagram provided below.

Functions

- Green front LED for signalling normal operation: presence of line voltage and closed circuit.
- Internal temperature checking: the circuit breaker automatically operates the opening of the circuit as soon as the safety threshold is exceeded.
- Self-test function to check the electrical continuity of the internal residual current circuit (in the absence of continuity, the circuit breaker will open).
- Opening the circuit if voltages occur higher than the predefined threshold at the circuit breaker input (for example, in 380V~ three-phase systems the circuit breaker prevents an erroneous “line-to line” connections, instead of “line-to-neutral”).

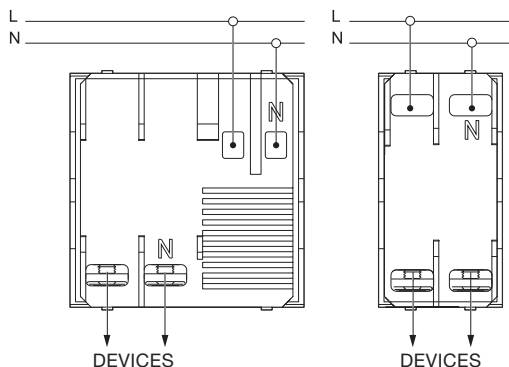
Characteristics

- Main lever operated control part: “I” symbol (closed circuit); “O” symbol (open circuit).
- Front LED for signalling the presence of line voltage and closed circuit.
- Yellow test button (test) for checking that the device is functioning properly.
- Terminals protected with captive screws for clamping two conductors up to 4 mm² each
- Construction of the thermo magnetic part as prescribed by Standards EN 60898 and IEC 60898.
- Construction of the residual current part according to Standards EN 61009 and IEC 61009.
- Power supply voltage: 120-230V~ ±10% 50-60Hz.

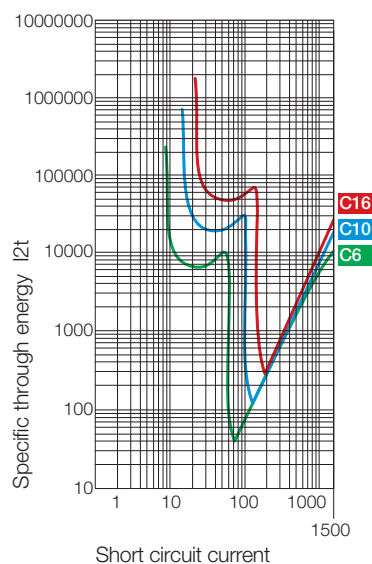
The supply line can be connected to either the upper or the lower terminals of the circuit breaker, which must be installed downstream of a general residual current circuit breaker (Standard CEI 64-8/5, paragraph 532.2.2.2).

The line voltage determines operation (Standard IEC 1009-1, paragraph 4.1.2).

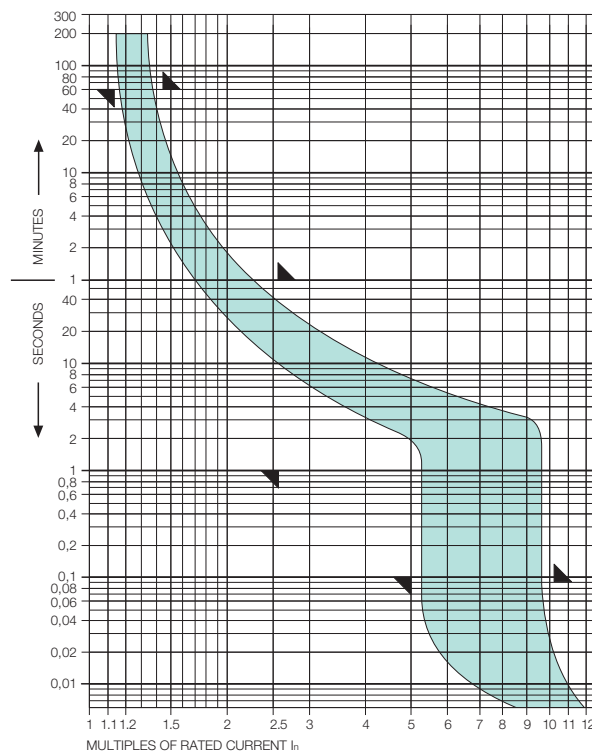
Wiring diagram



Characteristic curves



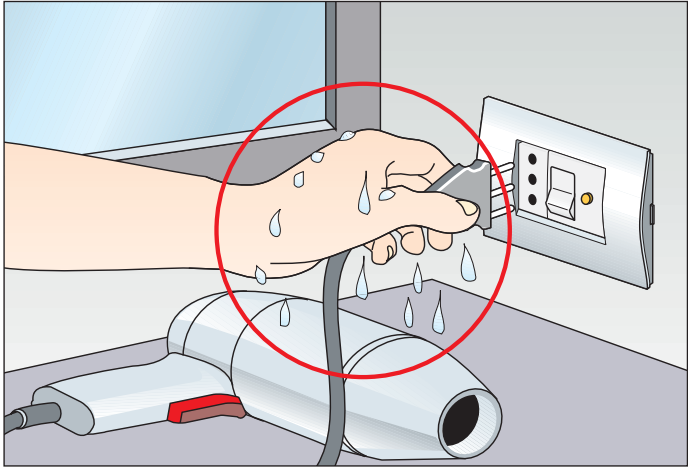
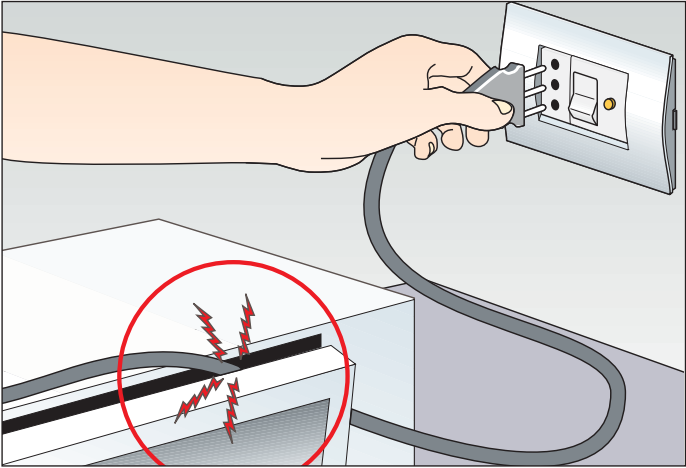
Current-time tripping diagrams for circuit-breakers of the Chiara range



Chiara - Technical details

Protection devices

Examples of application



Technical specifications

Type of circuit breaker	MCB	RCD
Rated voltage	230V	230V
Rated frequency	50 ÷ 60Hz	50 ÷ 60Hz
Rated residual current	-	10mA or 30mA
Short-circuit breaking capacity	6A 1500A 10A 3000A 16A 3000A	6A 1500A 10A 3000A 16A 3000A
Correnti nominali	6 -10 -16A	6 -10 -16A
Number of poles	1P + N	1P + N
Tripping characteristic		
- Overcurrent protection	Type C	Type C
- Limitation class	3	3
- Residual current protection	-	Class A

Reference standards

Thermomagnetic: EN 60898-1 - Differential: IEC 61009-1

Chiara - Technical details

Safety and comfort devices

Thermostats and time-programmed thermostats

Description	Code
Summer/winter electronic thermostat, relay output, 1 contact NO 8A (AC1)/2A (AC15) - Power supply 230V~ 50/60Hz	2CSK1202CH

Components

Current value of the AMBIENT TEMPERATURE in °C.
While adjusting the value of the DESIRED TEMPERATURE, it value is displayed (flashing).
About 5 seconds after the last time the keys were pressed, it returns to displaying the AMBIENT TEMPERATURE.

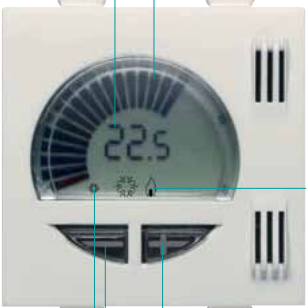
Display indicating the value of the DESIRED TEMPERATURE

RELAY ENERGISED icon.
This icon is displayed when power is requested from the system controlled by the thermostat.
The type of icon displayed (⚡ or ❄️) depends on the operating mode of the thermostat (heating or air conditioning).

Key to INCREASE the DESIRED TEMPERATURE (in steps of 0.5°C). The maximum value that can be set is 30 °C.

Key to DECREASE the DESIRED TEMPERATURE (in steps of 0.5 °C)
The minimum value that can be set is 5.0 °C (anti-freeze temperature)

ANTI-FREEZE icon. This is displayed when the DESIRED TEMPERATURE is set to the minimum value (5.0 °C)



The electronic thermostats of the Chiara series are equipped with a summer/winter switch for heating and air conditioning systems.

Characteristics

- Display of the current ambient temperature
- Display of the comfort temperature
- Display of the night-time temperature set
- Possibility to increase or decrease of temperature in steps of 0.5°C
- Minimum configurable value that can be set 5°C (anti-freeze temperature) and maximum configurable value 30°C
- Display of the operating status of the thermostat by means of symbols
- Anti-freeze function set to 5°C

Instructions for installation and operation

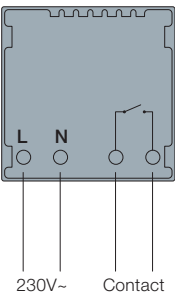
For correct operation, the thermostat must be installed at a height of approximately 1.5 metres from the floor, on internal walls, protected from direct sunlight and from any thermal interference such as heaters, lamps, televisions or any object that generates heat.

This device for controlling heating or air conditioning systems, uses a special technique that allows greater stability of the ambient temperature to be achieved while guaranteeing better comfort.

Areas of application

The environmental thermostats can be used for both heating and conditioning systems to control burners, pumps, valves, and refrigeration compressors.

Wiring diagrams



Technical specifications

Power supply	230V~ ±15% - 50Hz
Consumption	< 0.5 W
Output	Clean contact of 8A resistive relay
Operating temperature	from 0°C to +50°C
Adjustment range	from +5°C to +30°C
Precision	±1°C
Area of use	heating and air conditioning
Type of adjustment	PI
Proportional band	2.5°C

Reference standards

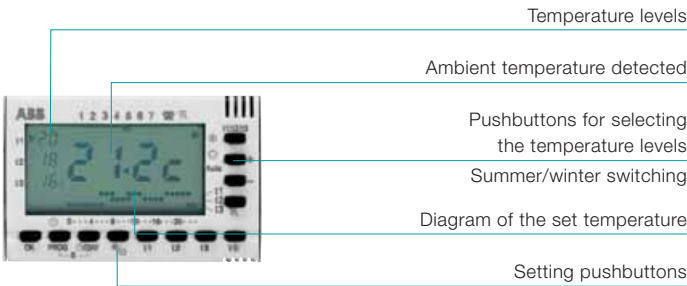
EN60730-1, EN60730-2-9, EN61000-3-2, EN61000-3-3, EN55014-1,EN55014-2

Chiara - Technical details

Safety and comfort devices

Description	Code
Summer/winter electronic time-programmed thermostat with 4 temperature levels, relay output, 1 NO/NC change-over contact 8A (AC1)/2A (AC15) - Power supply 230V~ 50/60Hz	2CSK1201CH

Components



Used in heating and air conditioning systems, the electronic time-programmed thermostats of the Chiara series include the possibility of summer/winter switching and the choice four levels of temperature: comfort, activity, reduction and anti-freeze. Each level is already preset in the memory of the device according to specific standards, that can be modified with the maximum simplicity of according to daily needs. On the display, values are displayed in real time for the programme activated, the current temperature, the time and the status of all the other functions set. It is possible to programme the desired temperature for every hour of the day (programming at 30 minute intervals is also possible), and for every day of the week. In addition, using a special function, the time-programmed thermostat of the Chiara series is able to automatically advance or delay switching on or off of systems in order to reach the ideal temperature exactly at the moment for which it was programmed. Adjustment of the thermal residual current device from 0.2°C to 2°C.

Characteristics

- Preset, adjustable and modifiable temperature levels: comfort, activity, reduction, anti-freeze fixed at +5°C
- Change-over switching: winter for heating, summer for air conditioning
- Limitation of the temperature values that can be set
- Possibility to change at any time from comfort temperature to activity, reduction or anti-freeze
- Display of the time and the ambient temperature
- Temporary or permanent manual operation
- Deletion from memory or modification of all the set information (day, time, temperature levels, etc.)
- Availability of a totally free program, which can be programmed according to the strictest personal requirements
- Possibility to suspend the program in progress for a set time cycle (maximum 999 hours)
- Connection to a telephonic programming device for remote control
- Possibility to activate the pump for 2 minutes every day of the year
- Signalling of faults during operation of the installation (for example, boiler blocked)
- Signalling that the battery for maintaining data in memory is low

Preset temperature settings

- T1 Comfort temperature 20°C adjustable
- T2 Activity temperature 18°C adjustable
- T3 Reduction temperature 16°C adjustable
- T Anti-freeze temperature 5°C fixed

Shown on the display

- Days, hours, minutes
- Ambient temperature detected
- Temperature levels
- Daily programming
- Type of operation: manual, automatic, summer, winter

Programming

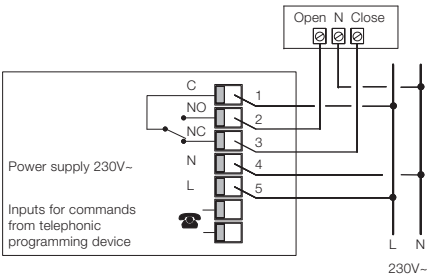
- 4 fixed programs
- 1 free program
- Programming at intervals of 30 minutes
- Holidays program
- Switching on or off with automatic management

Areas of application

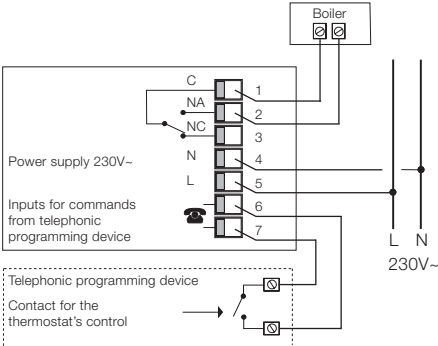
In residential applications, such as apartments and villas with independent heating, apartments with centralized heating, apartments or villas with independent air conditioning. In the services sector in environments equipped with air conditioning systems with fan coils and in environments equipped with centralized heating and zone valves.

Wiring diagrams

Example of connection to a motorized solenoid valve



Example of connection to a boiler and telephonic programmer



Technical specifications	
Power supply voltage	230 V - 50/60 Hz
Maintenance of programs during power outages	72 hours minimum
Output contact	NO/COM/NC 8(2)A / 250 V~
Type of insulation	Class II
Protection class	IP 30 (flush-mounted)
Temperature adjustment range	from + 5 °C to + 39 °C
Temperatures setting resolution	0.5 °C
Temperature display resolution	0.°C
Thermal gradient	max 1°K/15 min.
Differential operation	T modifiable from 0,2 °C to 2 °C
Updating of the temperature display	Once every 60 seconds
Operating temperature limits	-5°C + 50°C

Reference standards








LVD EN60730-2-7, EN60730-2-9, EMC EN60730-2-7, EN60730-2-9

Chiara - Technical details

Safety and comfort devices

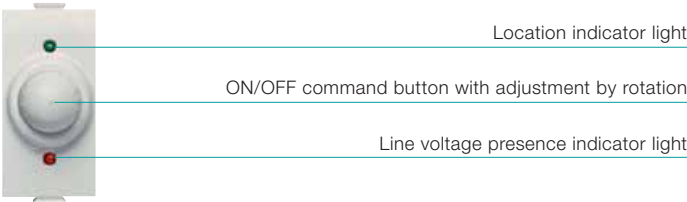
Dimmer

Loads that can be controlled with the dimmer

Dimmer type		Loads						
Dimmer code	Description	Fluorescent or halogen lamps 230V	Fluorescent lamps	Toroidal transformers	Electronic transformers	Electro-mechanical transformers	Drills	Air agitators
								
		YES	NO	NO	NO	NO	NO	NO
		YES	NO	YES	NO	YES	NO	NO
2CSK1204CH	Electronic dimmer with rotary control and two-way switch	YES	NO	NO	NO	NO	NO	NO
		YES	NO	NO	NO	NO	NO	NO

Description	Code
Electronic dimmer with rotary control for resistive loads 100-500W, 230V~ - 50/60Hz	2CSK1205CH

Components



Electronic dimmer with rotary control for resistive loads 100-500W 230V~ 50/60Hz (visible in the dark).

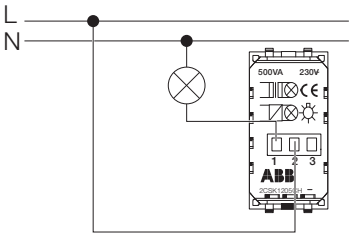
Operation

The load can be controlled and adjusted by rotating the knob. The light intensity of the location LED is attenuated as the brightness of the controlled lamps increases.

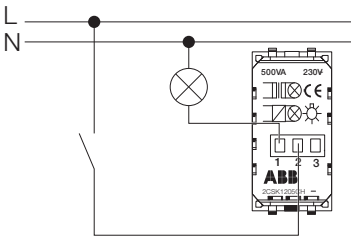
Wiring diagram

The connection can be made between phase and neutral or between phase and phase, always in series with the load.

Control with dimmer



Control with a switch and adjustment with a dimmer



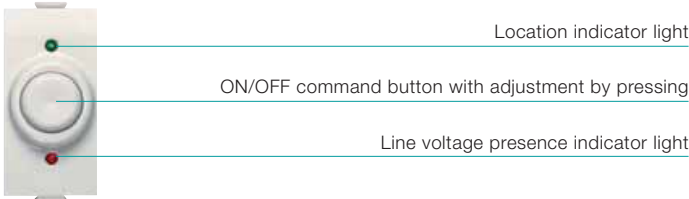
Technical specifications		
Rated voltage	230V - 50/60Hz	110V - 50/60Hz
Resistive load power	100 - 500W	50 - 250W
Inductive load power	100 - 500VA	50 - 250VA
Technology	TRIAC	TRIAC
Operating temperature	-5 °C ÷ +35 °C.	
Adjustable load	Filament and halogen lamps	

Reference standards

CEI 23-9 (EN 60669-1)

Description	Code
Electronic dimmer with pushbutton control for resistive and inductive loads 60-500W, (60-500VA) 230V~ - 50/60Hz	2CSK1207CH

Components



Electronic dimmer with pushbutton control for resistive and inductive loads 60-500W 60-500VA 230V~ -50/60Hz (visible in the dark).

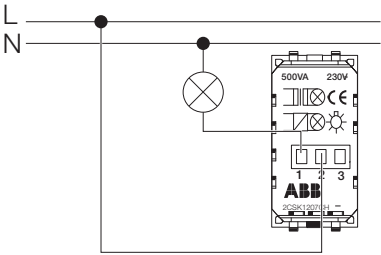
Operation

- The load can be controlled and adjusted using a pushbutton. The light intensity of the location LED is attenuated as the brightness of the controlled lamps increases. The load can be turned on, adjusted and turned off using the pushbutton present on the dimmer or with normal non-luminous NO pushbuttons connected to the dimmer.
- Storage of the adjustment set when the load was switched off (apart from network outages).
 - Switch-on and switch-off of the load is gradual.
 - Pressing the pushbutton quickly causes the load to be switched on or off. Adjustment is obtained by keeping it pressed. To reverse the direction of adjustment, interrupt and then resume pressing the pushbutton.
 - If the pushbutton is pressed approximately between 0.3 s and 1 s, the dimmer will light up the controlled lamps, automatically and gradually, to their maximum brightness.

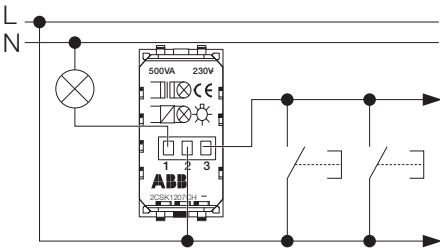
Wiring diagram

The connection can be made between phase and neutral or between phase and phase, always in series with the load.

Control and adjustment with a dimmer pushbutton



Control and adjustment with a dimmer pushbutton and NO button connected in parallel



Technical specifications		
Rated voltage	230V - 50/60Hz	110V - 50/60Hz
Resistive load power	60 - 500W	30 - 250W
Inductive load power	60 - 500VA	30 - 250VA
Technology	TRIAC	TRIAC
Operating temperature	-5 °C ÷ +35 °C.	
Adjustable load	Filament and halogen lamps, ferromagnetic transformers for halogen lamps	

Reference standards

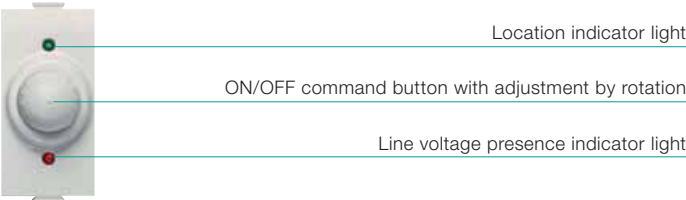
CEI 23-9 (EN 60669-1)

Chiara - Technical details

Safety and comfort devices

Description	Code
Electronic dimmer with rotary control and with two-way switch for resistive loads 100-500W, 230V~ - 50/60Hz	2CSK1204CH

Components



5

Electronic dimmer with rotary control and two-way switch for resistive loads 100-500W 230V~ -50/60Hz (visible in the dark).

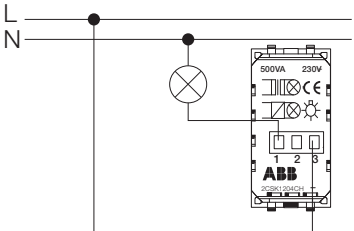
Operation

The load is controlled directly by means of a pressed two-way switch. Adjustment is performed by rotating the knob. The light intensity of the location LED is attenuated as the brightness of the controlled lamps increases. Once the desired lighting level has been set, pressing the knob will switch the light source off, while pressing it again will switch it back on at the set lighting level.

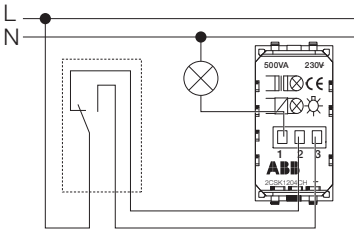
Wiring diagram

The connection can be made between phase and neutral or between phase and phase, always in series with the load.

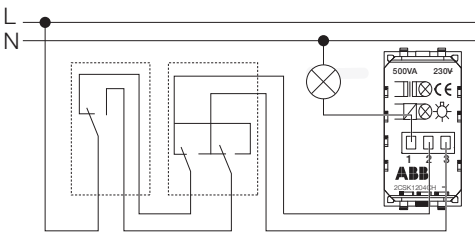
Control and adjustment with a dimmer



Control with two-way switch and dimmer, adjustment with dimmer



Control with two-way switch, intermediate switch and dimmer, adjustment with dimmer



Technical specifications

Rated voltage	230V - 50/60Hz	110V - 50/60Hz
Resistive load power	100 - 500W	50 - 250W
Inductive load power	100 - 500VA	50 - 250VA
Technology	TRIAC	TRIAC
Operating temperature	-5 °C ÷ +35 °C.	
Adjustable load	Filament and halogen lamps	

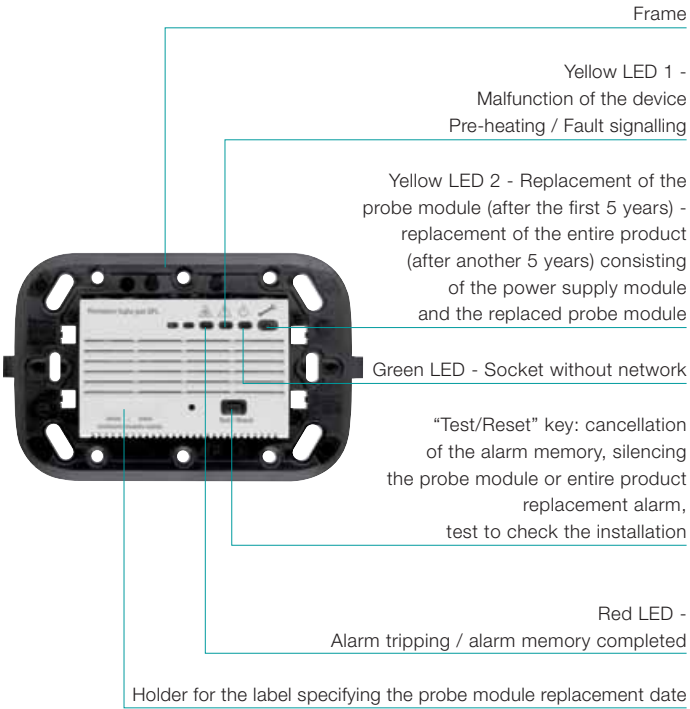
Reference standards

CEI 23-9 (EN 60669-1)

Gas detectors

Description	Code
Electronic natural gas detector with acoustic and indicator signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box	2CSK1210CH
Electronic LPG gas detector with acoustic and indicator signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box	2CSK1211CH

Components

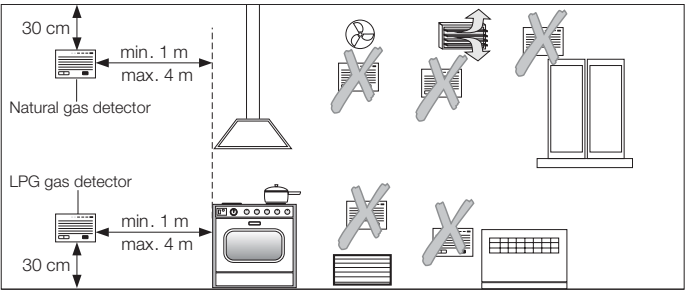


The wiring accessories natural gas (CH₄) or LPG gas detectors, flush-mounted with 3 modules (503 box embedded in the wall) contribute to guarantee the safety of civil environments where gas operated domestic appliances are installed, such as: boilers, cookers.

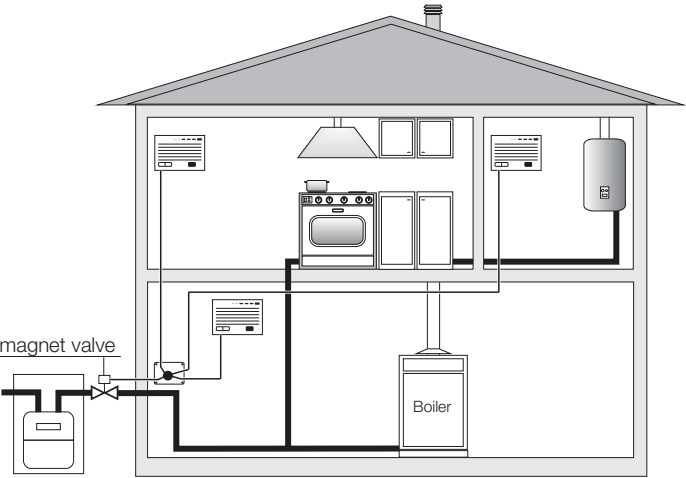
The equipment consists of a fixed power supply module and removable sensor module, which must be replaced after 5 years of continuous use. This allows a saving on the purchase and installation costs, with a lower impact on the environment due to the extension of the life time of the power supply/relay module for a further 5 years.

Positioning of the detector

The installation of the gas detector does not exonerate users from observance of all current laws and standards in the country of installation regarding the specifications, installation and use gas powered equipment, the ventilation of rooms and the release of combustion products.



- Install the natural gas detector at a maximum of 30 cm from the ceiling
- Install the LPG detector at a maximum of 30 cm from the floor surface.
- Install the detectors between 1 m and 4 m from the gas appliances.
- Do not install the detectors outdoors or in places exposed to atmospheric agents
- Do not install the detectors close to: sinks, air intakes, heating and air conditioning devices, windows and ventilation devices; in addition, the detectors must not be installed in closed spaces, such as behind a curtain or inside a cabinet.



Illustrative example: installation with 3 gas detectors (natural gas) that command the solenoid valve for shutting off the gas supply.

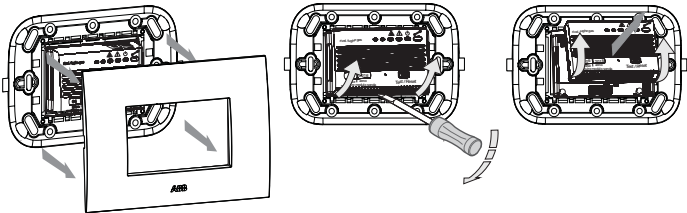
Chiara - Technical details

Safety and comfort devices

Extraction of the probe module (for example: to replace it)
CAUTION: always deactivate the line voltage 230V~

1. Remove the frame.
2. Delicately insert the flat blade of a small screwdriver and use it as a lever to uncouple the sensor module.
3. Rotate the sensor module upwards in order to uncouple it completely.

Replacement probe modules:
2CSY1220MC: Natural Gas replacement probe module
2CSY1223MC: LPG Gas replacement probe module



Characteristics

- Devices equipped with a control circuit with microprocessor that performs self-diagnosis tasks to ensure the perfect efficiency of the sensor over time.
- Sensor equipped with a special selective filter in order to avoid alarms in response to the presence of gas vapours that are not meant to be detected, such as steam from cooking, vapours from cleaning fluids etc.
- Devices equipped with an operating time meter, in order to signal the necessary replacement of the sensor module after the first 5 years of use.
- Luminous (red LED) and acoustic alarm signal.
- TEST (to verify that the device is operating properly) and Reset system with a single pushbutton.
- The gas detectors are equipped with an output relay that can command a valve to shut off the distribution of gas.

Key to signals

Luminous LED	Acoustic BUZZER
off	off
flashing	intermittent
on, fixed	-

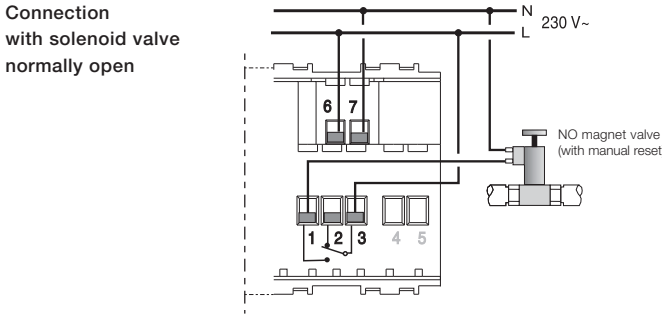
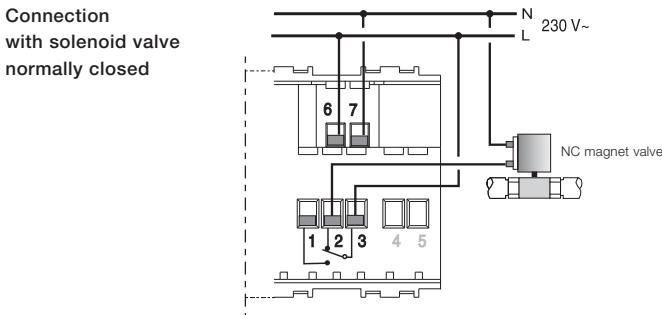
Reference standards

LVD CEI 216-8 - EMC EN 50270

Wiring diagrams

CAUTION: the power supply network must incorporate a device to guarantee omnipolar disconnection.
The detector must be powered by a voltage of 230V~ 50Hz with continuity in order to guarantee maximum safety and correct signalling of replacement within the declared time limits.
For the electrical connections, bring cables with a maximum cross-section of 2.5 mm² to the terminals of the detector.

The diagrams (illustrative examples) show the position of the relay contacts at rest (no alarm).



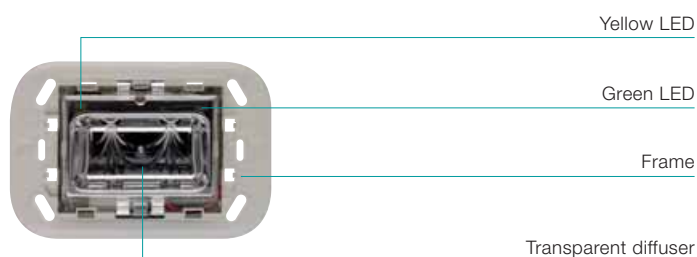
Technical specifications

Power supply voltage	230 V~ +/- 10% 50 Hz
Solenoid valve command relay	1 potential-free change-over contact
Capacity of relay contacts (max)	6 (2) A 250 V ~
Protection class	IP40
Type of insulation	Class II
Area of application	Domestic - type A
Semiconductor sensor	Installed inside the probe module
Operating temperature limits	- 10 °C ÷ + 40 °C
Operating humidity	90% UR (maximum)
Types of gas detected	Natural Gas - with model for natural gas LPG - with model for LPG gas
Alarm tripping	10% LIE (Lower Explosiveness Limit) For both models
Acoustic alarm	85 dB at 1 m
Sensor warm-up time at switch-on	1 minute
Storage temperature limits	- 15 °C ÷ + 50 °C

Emergency lighting

Description	Code
LED light for emergency lighting or steplight. Charge reserve up to 3h and recharge time 12h. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box	2CSK1303CH

Components



High efficiency LED-lit emergency device for embedded installation. Dimensions of 3 modules. Suitable for installation of frames of the Chiara wiring accessories' range.

Instructions for installation and operation

The light provides 6 distinct operating modes, that can be set by programming.

Mode	Description	Battery life	Terminals 1 and 2
1	inhibition not activated	1h	Switch-on / switch-off / adjustment
2	inhibition not activated	2h	Switch-on / switch-off / adjustment
3	inhibition not activated	3h	Switch-on / switch-off / adjustment
4	Inhibition activated	1h	Connection for inhibition switch
5	Inhibition activated	2h	Connection for inhibition switch
6	Inhibition activated	3h	Connection for inhibition switch

To access programming mode you need to connect the batteries using the appropriate connector: the yellow LED will light up and the green LED will flash a number of times equal to the mode set (for example, 2 flashes=mode 2). This sequence will be repeated 3 times.

If you wish to change the operating mode, press the transparent diffuser: the yellow LED will switch off for a fraction of a second to indicate that the key has been pressed and the green LED will indicate the value of the new mode by the number of flashes.

Each time the diffuser is pressed, it increases the operating mode by one unit. After three cycles of displaying the mode, the device will automatically complete the programming procedure, store the mode that has been set and the GREEN and YELLOW LEDs will switch off.

In modes 1-2-3 it is possible to adjust the lighting level (dimming) by pressing the transparent diffuser.

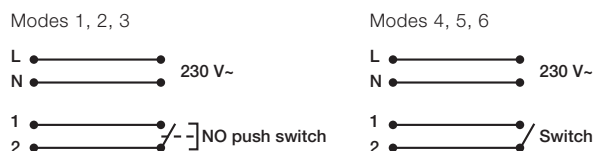
Functions

The device is equipped with 2 signalling LEDs:

Green LED	Meaning
Flashing	Apparatus connected to the electrical network being quick-charged.
On	Apparatus connected to the electrical network being recharged for maintenance
Off	Apparatus in emergency state.

Yellow LED	Meaning
On	The apparatus has faults (monthly test NOT passed)
Off	No malfunction

Wiring diagram



Technical specifications

Power supply voltage	230V~ ±10%, 50-60 Hz.
Emergency light flow	50 lumen with 1h autonomy 35 lumen with 3h autonomy
Consumption	SE mode (not permanent) 5mA at 230V~ = 1.6W SA mode (permanent) 30mA at 230V~ = 7 W Ni-Mh batteries, AA 3.6V 1300mAh High Temperature
Battery recharge time	12 hours quick charge
Battery life	1h, 2h and 3h
Lamp	2 white high efficiency 1W LEDs
Signalling	2 LEDs, GREEN and YELLOW
Ambient Temperature	25°C

Reference standards

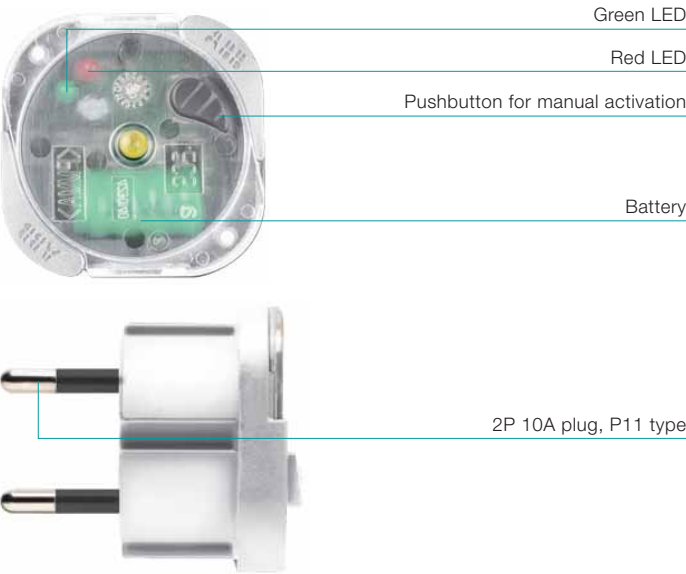
EN 60598-2-22

Chiara - Technical details

Safety and comfort devices

Description	Code
Removable anti-blackout light, 230V~. Charge reserve 4.5 h and recharge time 10-20h. To be combined with 230V~ plug sockets; particularly recommended for codes 2CSK1108CH and 2CSK1109CH.	2CSK1214CH

Components



The anti-blackout light is an automatic removable, rechargeable electronic lamp that can be inserted in any Schuko socket or Italian P11 standard 10A bivalent socket. Socket outlets particularly recommended for holding the lamp are the sockets of the Chiara wiring accessories' range 2CSK1108CH and 2CSK1109CH, that allow the body of the lamp to be embedded in the socket outlet, thus minimizing the external dimensions.

The device was designed to light up automatically in the event of a blackout (no voltage warning), or to be used as a portable lighting device, useful in order to guarantee visibility and facilitate maintenance operations and/or searching for faults in unlit environments.

Functions

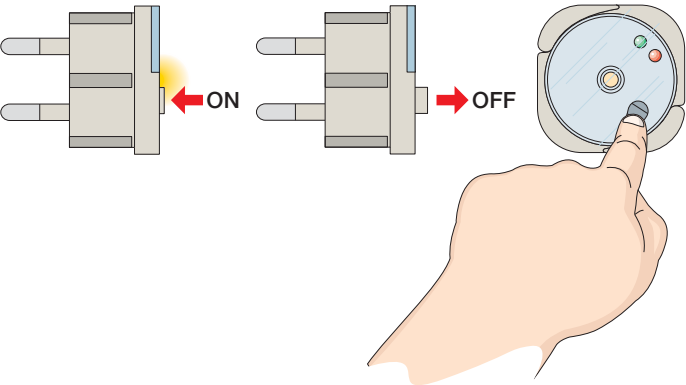
A light source is activated automatically whenever the line voltage is missing (blackout) thanks to rechargeable backup batteries.

- Possibility to extract it from the socket and use it as a normal pocket torch with an on/off button on the front.
- Long autonomy, 4.5 hours of continuous operation.
- Small dimensions - protrusion from the Schuko profile (only 8 mm).

On the front part there are two LEDs (one red and one green) that indicate the state of the lamp when it is powered:

- Red LED on, recharging in progress. In the event of a blackout the lamp will remain off (battery saving condition, used in the case of prolonged absence).
- Green LED on, recharging in progress. In the event of a blackout the lamp will light up and will switch off automatically when the network is restored.

The pushbutton on the front part allows you to switch from one condition to another.



Technical specifications	
Plug	2P 10A
Center distance of the pins	19 mm
Ø of the pins	4 mm
Power supply	230V~50-60 Hz
Recharge time	10-20 hours
Useful battery life	4.5 hours

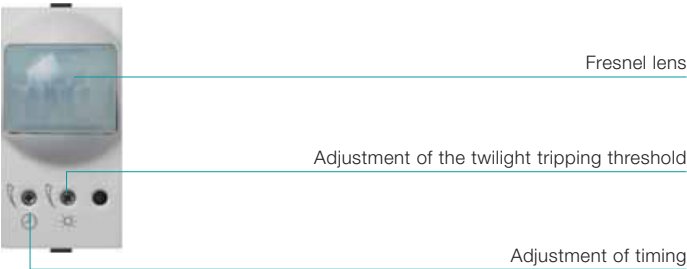
Reference standards

EN 60598-1, EN 60598-2

Other devices

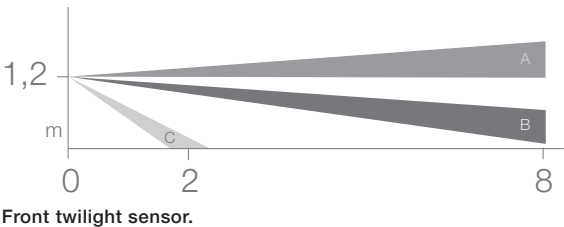
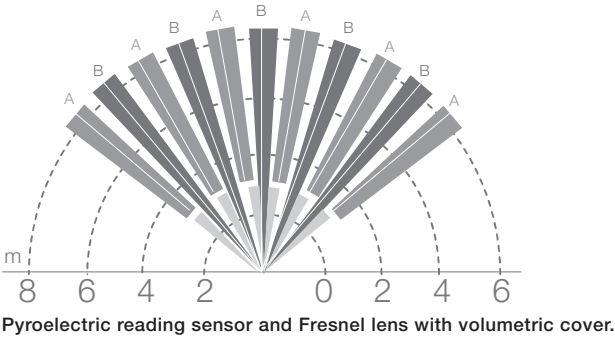
Description	Code
IR motion detector with twilight sensor for control and adjustment of the operation time of lighting devices. Relay output NO 5A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50/60Hz.	2CSK1216CH

Components



Switch with infrared presence sensor in order to switch lights on through adjustable twilight sensor threshold and delay cycle.
It operates the load automatically when persons or animals pass through the field of action of the sensor.

Sensor volumetric cover

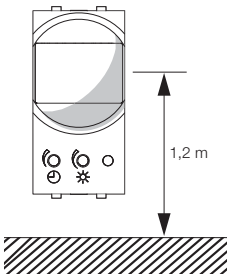


Instructions for installation

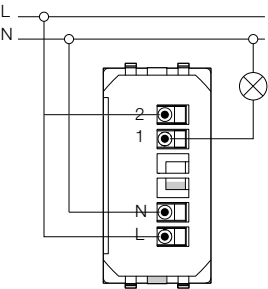
- for installation inside
- flush-mounted installation: 1.1-1.2 m from the walking surface

The apparatus cannot be installed in:

- environments with sudden changes in temperature.
- environments with high humidity.
- environments with presence of gas, corrosive fluids, sea air or dust.



Schema di collegamento



Examples of application



Technical specifications

Power supply	230V AC (L-N terminals)
Power relay output (terminals 1-2)	
Max load	
- resistive loads	10A / 250V AC
- inductive loads	2A / 250V AC
Tripping threshold	0-300 Lux Adjustable by means of a front trimmer
Time delay	From approximately 5 s to approximately 5 min Adjustable by means of a front trimmer
Operating temperature	-5 a +35 °C.

Reference standards

LV Directive; EMC Directive; EN 60730

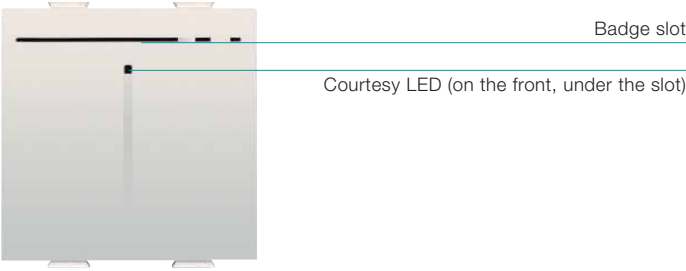
Chiara - Technical details

Safety and comfort devices

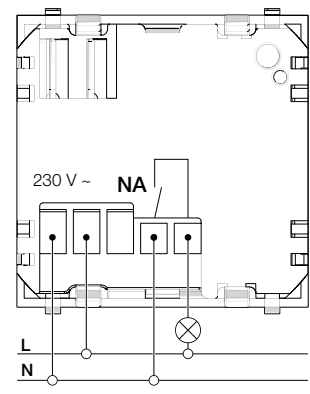
Description	Code
Universal badge switch with location light Relay output with NO contact 10A (AC1). Power supply 230V~ 50/60Hz	2CSK1426CH

Vertical badge electronic switch, relay output 16 A 250 V~, power supply 230 V~ 50-60 Hz, modules. Supplied without ISO card (badge). The device is equipped with a courtesy LED for night-time location.

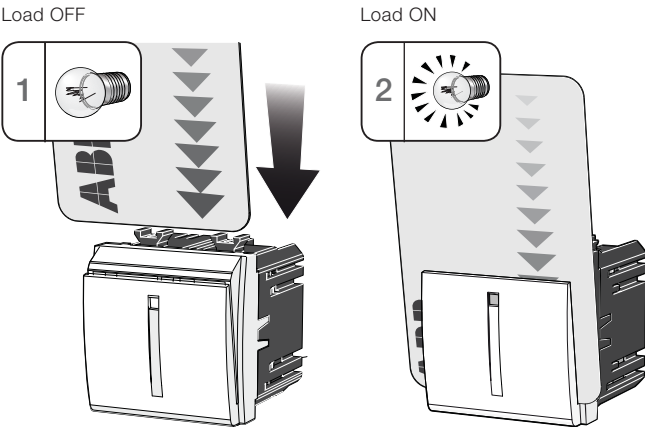
Components



Wiring diagram



Operation



Technical specifications	
Power supply	230 V~ ±10% 50-60 Hz
Output	relay with clean contact 10 A 250 V~ cos ø 1
Typical absorption	230 V~ 50-60 Hz: 30 mA, with relay active
Operating temperature	-5 °C +45 °C

Reference standards

LV Directive; EMC Directive; Standard EN 60669-2-1

Chiara - Technical details

Wall-mounted enclosures

IP40 and IP55 wall-mounted enclosures



Area of application

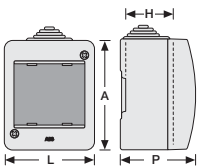
The IP40 wall-mounted enclosures, pursuant to Standard CEI 64-8, extend the area of application of the devices of the Chiara series to environments such as boiler rooms, warehouses, mechanical workshop, basements etc., where protection class IP40 is prescribed, defined by Standard EN 60529 (CEI 70-1).

This is guaranteed through devices installed in the enclosures, if the installation is carried out according to the supported procedures, through the use of connections, cable grommets and pipe ducts.

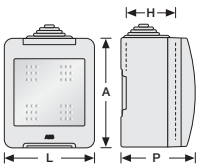
For devices with an open front (e.g. socket outlets) the protection class is less than IP40 but never less than IP20.

IP55 watertight wall-mounted enclosures, on the other hand, allow the application of the equipment of the Chiara series in environments such as building sites, sports installations, marinas, industrial and agricultural establishments, gardens, camp sites etc. The protection class IP55, defined by the Standard EN 60529 (CEI 70-1), is guaranteed by devices installed in the enclosures, if the installation is carried out according to the supported procedures, through the use of the suitable accessories and with the cover closed.

Dimensions of IP40 and IP55 enclosures



IP40 enclosure	no. modules	H	A	L	P
2CSK2140CH	1	38	80	65	55
2CSK2240CH	2	38	80	65	55
2CSK2340CH	3	38	80	104	55
2CSK2440CH	4	38	80	130	55



IP55 enclosure	no. modules	H	A	L	P
2CSK2155CH	1	40,5	80	65	63
2CSK2255CH	2	40,5	80	65	63
2CSK2355CH	3	40,5	80	104	63
2CSK2455CH	4	40,5	80	130	63

Chiara - Technical details

Wall-mounted enclosures

Because of the maximum depth dimension H, the IP40 and IP55 wall-mounted enclosures of the Chiara series cannot house the following contact blocks:

Code	Description
2CSK1204CH	Electronic dimmer with rotary control and two-way switch for resistive loads 100-500W
2CSK1205CH	Electronic dimmer with rotary control for resistive loads 100-500W
2CSK1207CH	Electronic dimmer with pushbutton control for resistive and inductive loads
2CSK1317CH	Electro-mechanical bell, 12V, 5VA, sound intensity 80 dB
2CSK1318CH	Electro-mechanical bell, 230V, 8VA, sound intensity 80 dB
2CSK1321CH	Electro-mechanical buzzer, 12V, 5VA, sound intensity 70 dB
2CSK1322CH	Electro-mechanical buzzer, 230V, 8VA, sound intensity 70 dB
2CSK1304CH	Automatic MCB 1P+N, C6
2CSK1305CH	Automatic MCB 1P+N, C10
2CSK1306CH	Automatic MCB 1P+N, C16

Code	Description
2CSK1307CH	Automatic RCD 1P+N, C6 – 10 mA
2CSK1308CH	Automatic RCD 1P+N, C10 – 10 mA
2CSK1309CH	Automatic RCD 1P+N, C16 – 10 mA
2CSK1328CH	Automatic RCD 1P+N, C6 – 30 mA
2CSK1329CH	Automatic RCD 1P+N, C10 – 30 mA
2CSK1330CH	Automatic RCD 1P+N, C16 – 30 mA
2CSK1324CH	Interlocked socket with MCB (2P+E 16A 230V P17/11)
2CSK1325CH	Interlocked socket with MCB (2P+E 16A 230V)
2CSK1326CH	Interlocked socket with automatic RCD 10mA (2P+E 16A 230V P17/11)
2CSK1012CH	Single pole latching relay, 230V, 1 10A output contact
2CSK1014CH	4 sequence switch relay, 230V, 2 10A output contacts

The installation of similar devices in the form of a DIN rail in the distribution board is recommended where possible.

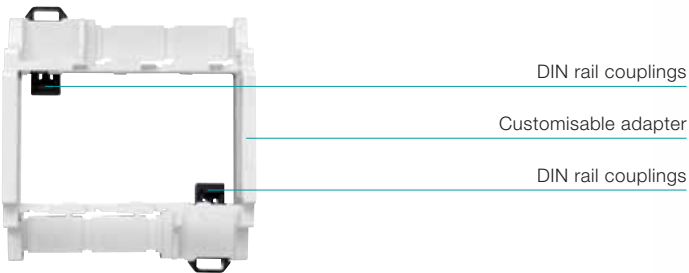
Chiara - Technical details

Other installation solutions

Support for DIN bar 1-2-3 modules

Description	Code
Support for DIN bar for 1-2-3 modules, customisable	2CSK1608CH

Components

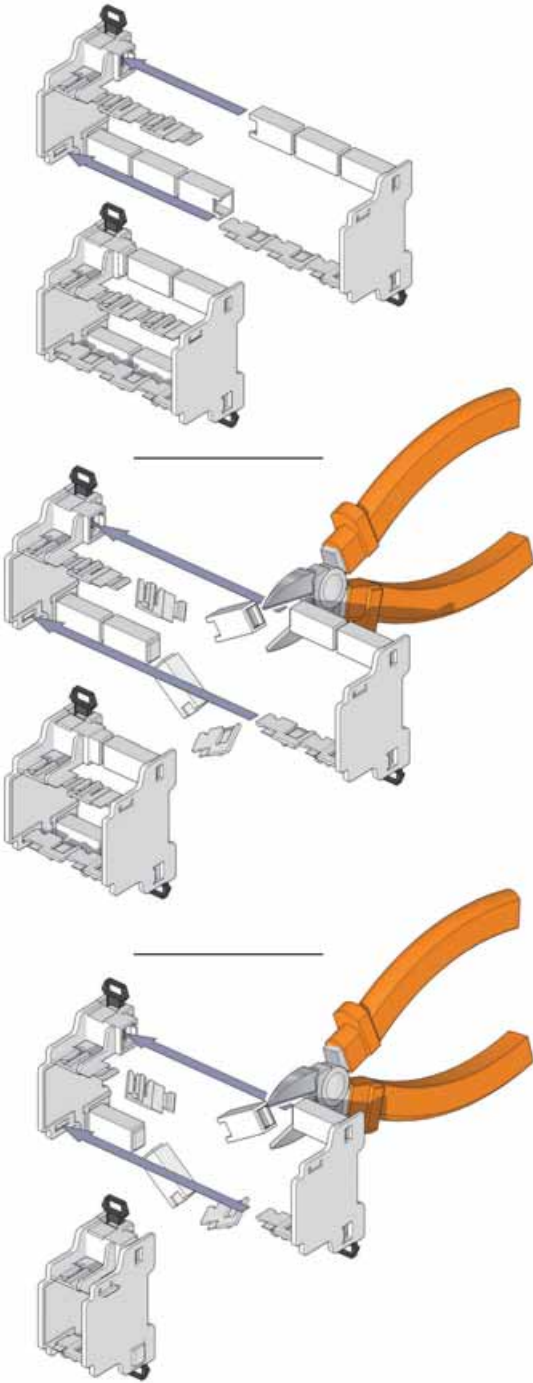


Reference dimensions:

- 1 module version: 1,9 DIN modules
- 2 modules version: 3,4 DIN modules
- 3 modules version: 4,4 DIN modules

Instruction for installation

3 modules: snap assemble the two halves.
1 or 2 modules: using a cutter, cut along lines 1 or 2 respectively and assemble the two halves.

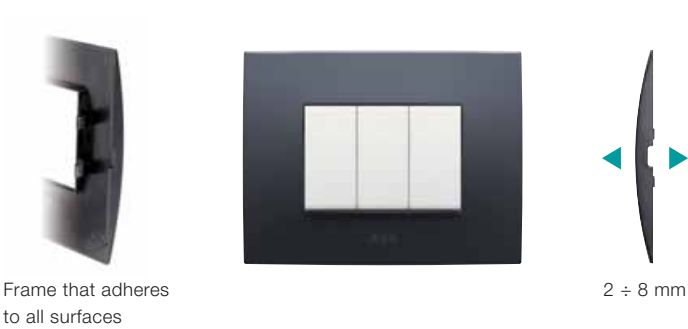


Chiara - Technical details

Frames

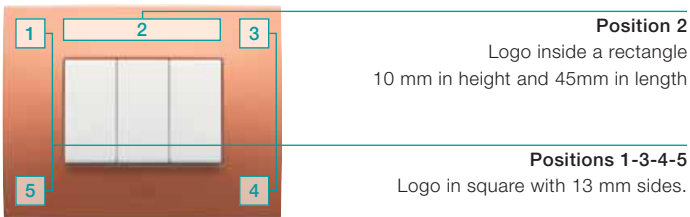
The frames of the Chiara series are made from technopolymer with natural/pastel colour shades or surface galvanic painting, and are characterised by their minimal protrusion from the wall, since they are not fitted with an under-plate.

Reference standards
CEI 23-9 (EN 60669-1).



5 Customization

Frames customized with a logo/text string can be supplied on request. They are produced by means of monochromatic pad printing on the areas highlighted below.



Customization is possible with standard colours (black, Pantone cool gray 3C, Pantone 5425 C) or with a colour specified by the customer.
Minimum order batch: 36 pieces including various modularities.
For quotes and delivery times contact an ABB sales executive.

Chiara - Coding

Order information



Coding criteria of the devices

2	C	S	K	1				C	H
Fixed part of the code					Product family	Product progressive number		Fixed part of the code	

- 0
Control devices
1
Socket outlets
2
Comfort devices
3
Protection devices and signalling devices
6
Components for installation, accessories and spare parts

Example: single-pole switch

2	C	S	K	1	0	0	1	C	H
---	---	---	---	---	---	---	---	---	---



Coding criteria of the frames

2	C	S	K	0				C	H
Fixed part of the code					Number of modules	Colour code		Fixed part of the code	

- 2
2-module frame
3
3-module frame
4
4-module frame
7
7-module frame
- 01
white
02
sand
03
stone
04
volcano
11
pastel yellow
12
pastel orange
13
pastel green
14
pastel blue
15
glossy chromium
16
satin chromium
17
glossy metal
18
satin metal black
51
glossy bronze
52
satin bronze
53
glossy gold
54
satin gold

Example: technopolymer frame, 3 modules, sand colour

2	C	S	K	0	3	0	2	C	H
---	---	---	---	---	---	---	---	---	---

Packaging

To enable automatic warehouse management using optical readers, the devices and frames of the Chiara wiring accessories' range are packaged in boxes that bear the EAN bar code and that protect the contents adequately against dust and shocks. For a better explanations of the installation methods, a specific instruction sheet is supplied. Individual packages are available for only for the codes with the lowest turnover.

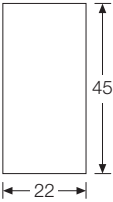
Chiara

Overall dimensions

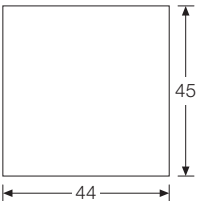
5

Chiara code	Description	No. Modules	Depth mm
2CSK1001CH	Single-pole switch, 16A - 250V~	1	30
2CSK1002CH	Double-pole switch, 16A - 250V~	1	30
2CSK1003CH	Single-pole two-way switch, 16A - 250V~	1	30
2CSK1004CH	Single-pole switch, 16A - 250V~, 2 modules	2	30
2CSK1005CH	Single-pole push switch NO, 16A	1	30
2CSK1006CH	Double-pole switch, 16A - 250V~, with key control	1	25
2CSK1006CHU	Double-pole switch, 16A - 250V~, with universal key control	1	25
2CSK1007CH	Single-pole two-way switch, 16A - 250V~, 2 modules	2	30
2CSK1008CH	Intermediate switch, 16A - 250V~, 2 modules	2	30
2CSK1009CH	Double-pole push switch, NO, 16A - 250V~, with key control	1	25
2CSK1009CHU	Double-pole push switch, NO, 16A - 250V~, with universal key control	1	25
2CSK1010CH	Intermediate switch, 16A - 250V~	1	30
2CSK1011CH	Change-over switch, 10A - 250V~, 3 positions	1	31
2CSK1012CH	Single pole latching relay, 230V	1	31
2CSK1014CH	4 sequence switch relay, 230V, 2 10A output contacts	1	31
2CSK1016CH	Single-pole push switch NC, 16A	1	30
2CSK1017CH	Double single-pole push switch, NO+NO, 16A - 250V~	1	30
2CSK1018CH	Double single-pole push switch, NO+NO, 16A - 250V~, with interlock	1	30
2CSK1022CH	Single-pole push switch 1 NO and 1 NC, 16A, with ON	1	30
2CSK1023CH	Single-pole push switch 1 NO and 1 NC, 16A, with OFF symbol	1	30
2CSK1020CH	Single-pole push switch NC with cord pull, 16A	1	30
2CSK1021CH	Single-pole push switch NC with cord pull, 16A	1	30
2CSK1028CH	Single-pole push switch NO, 16A, with BELL	1	30
2CSK1029CH	Single-pole push switch NO, 16A, with KEY	1	30
2CSK1030CH	Single-pole push switch NO, 16A, with STAIR LIGHT	1	30
2CSK1024CH	Single-pole push switch NO, 16A, with red diffuser	1	30
2CSK1025CH	Single-pole push switch NO, 16A, with green diffuser	1	30
2CSK1026CH	Single-pole push switch NO, 16A, with orange diffuser	1	30
2CSK1027CH	Single-pole push switch NO, 16A, with white diffuser	1	30
2CSK1031CH	Single-pole pushbutton NO, 16A, with backlit label holder plate push switch	2	30
2CSK1032CH	Single-pole push switch NO, 16A, with backlit label holder plate, 3 modules	3	30
2CSK1101CH	2P+E socket outlet, 10A - 250V~, P11 type	1	22
2CSK1102CH	2P+E socket outlet, 16A - 250V~, P17 type	1	22
2CSK1103CH	2P+E socket outlet, 10/16A - 250V~, P17/P11 type	1	22
2CSK1104CH	2P+E socket outlets, 10/16A, red	1	22
2CSK1105CH	2P+E socket outlets, 10/16A, green	1	22
2CSK1106CH	2P+E socket outlets, 10/16A, orange	1	22
2CSK1108CH	2P+E socket outlet, 16A - 250V~, P30 type	2	31
2CSK1114CH	2P+E socket outlets, 16A - 250V~, P30 type, red	2	31
2CSK1115CH	2P+E socket outlets, 16A - 250V~, P30 type, green	2	31
2CSK1116CH	2P+E socket outlets, 16A - 250V~, P30 type, orange	2	31
2CSK1109CH	2P+E socket outlet, 16A - 250V~, P30/17 type	2	35
2CSK1110CH	2P+E socket outlets, 16A - 250V~, P30/17 type, red	2	35
2CSK1111CH	2P+E socket outlets, 16A - 250V~, P30/17 type, green	2	35
2CSK1112CH	2P+E socket outlets, 16A - 250V~, P30/17 type, orange	2	35
2CSK1113CH	2P shaver socket with insulating transformer	3	37,5

1 module



2 modules



3 modules



Chiara code	Description	No. Modules	Depth mm
2CSK1324CH	2P+E socket outlet, 16A - 250V~, interlocked with MCB, P17/11	2	37,5
2CSK1325CH	2P+E socket outlet, 16A - 250V~, interlocked with MCB, P30	3	37,5
2CSK1326CH	2P+E socket outlet, 16A - 250V~, with RCD 10mA, P17/11	3	37,5
2CSK1117CH	TV coaxial socket, direct, male IEC connector ø 9.5 mm, insulated type	1	21
2CSK1118CH	TV/SAT coaxial socket, direct, male IEC connector ø 9.5 mm, with feedthrough of direct current	1	21
2CSK1132CH	TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 7dB	1	21
2CSK1136CH	TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 10dB	1	21
2CSK1137CH	TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 14dB	1	21
2CSK1138CH	TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm, attenuation 18dB	1	21
2CSK1119CH	TV/SAT coaxial socket, direct, female F connector, with feedthrough of direct current	1	21
2CSK1133CH	Double demixed TV/SAT coaxial socket, direct, male IEC connector ø 9.5 mm and female F connector	1	21
2CSK1120CH	Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 7dB	1	21
2CSK1130CH	Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 10dB	1	21
2CSK1131CH	Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 14dB	1	21
2CSK1139CH	Double demixed TV/SAT coaxial socket, feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 18dB	1	21
2CSK1121CH	RJ11 telephone connector	1	21
2CSK1122CH	RJ12 telephone connector	1	21
2CSK1124CH	RJ45 connector, Cat. 5e, UTP (unshielded)	1	21
2CSK1125CH	RJ45 connector, Cat. 5e, FTP (shielded)	1	21
2CSK1127CH	RJ45 connector, Cat. 6, UTP (unshielded)	1	21
2CSK1128CH	RJ45 connector, Cat. 6, FTP (shielded)	1	21
2CSK1160CH	Flush-mounted USB charger 500-650mA	1	35
2CSK1210CH	Electronic natural gas detector	3	39
2CSK1211CH	Electronic LPG gas detector with acoustic and indicator signal	3	39
2CSK1301CH	Fuse holder, for fuses Ø5x20 / Ø6.3x32 mm, max. 16A	1	26
2CSK1303CH	LED light for emergency lighting or steplight	3	50
2CSK1304CH	Automatic MCB, 1P+N, C6, breaking capacity 1.5kA	1	36
2CSK1305CH	Automatic MCB, 1P+N, C10, breaking capacity 3kA	1	36
2CSK1306CH	Automatic MCB, 1P+N, C16, breaking capacity 3kA	1	36
2CSK1307CH	Automatic RCD, 1P+N, C6 - 10 mA, breaking capacity 1.5kA	2	36
2CSK1308CH	Automatic RCD, 1P+N, C10 - 10 mA, breaking capacity 3kA	2	36

Chiara

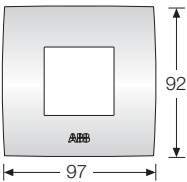
Overall dimensions

5

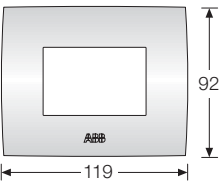
Chiara code	Description	No. Modules	Depth mm
2CSK1309CH	Automatic RCD, 1P+N, C16 - 10 mA, breaking capacity 3kA	2	36
2CSK1315CH	Overvoltage limiter, 75J, 230V~	1	26
2CSK1328CH	Automatic RCD, 1P+N, C6 - 30 mA, breaking capacity 1.5kA	2	36
2CSK1329CH	Automatic RCD, 1P+N, C10 - 30 mA, breaking capacity 3kA	2	36
2CSK1330CH	Automatic RCD, 1P+N, C16 - 30 mA, breaking capacity 3kA	2	36
2CSK1310CH	Warning light, ORANGE colour	1	20
2CSK1311CH	Warning light, WHITE colour	1	20
2CSK1312CH	Warning light, RED colour	1	20
2CSK1313CH	Warning light, GREEN colour	1	20
2CSK1317CH	Electro-mechanical bell, 12V	1	37
2CSK1318CH	Electro-mechanical bell, 230V,	1	37
2CSK1321CH	Electro-mechanical buzzer, 12V	1	37
2CSK1322CH	Electro-mechanical buzzer, 230V	1	37
2CSK1201CH	Summer/winter electronic time-programmed thermostat	3	38
2CSK1202CH	Summer/winter electronic thermostat	2	29,5
2CSK1205CH	Electronic dimmer with rotary control for resistive loads 100-500W	1	39
2CSK1204CH	Electronic dimmer with rotary control and two-way switch for resistive loads 100-500W	1	39
2CSK1207CH	Electronic dimmer with pushbutton control for resistive and inductive loads 60-500W	1	39
2CSK1214CH	Removable anti-blackout light, 230V	see drawing	
2CSK1216CH	IR motion detector with twilight sensor for control and adjustment of the operation time of lighting devices	1	32
2CSK1426CH	Universal badge switch with location light	2	32

Frames

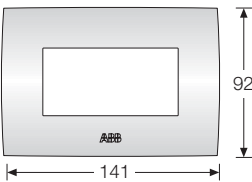
2 modules



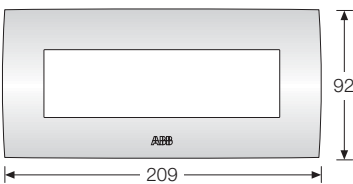
3 modules



4 modules

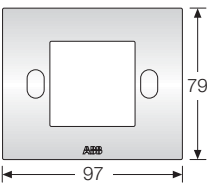


7 modules



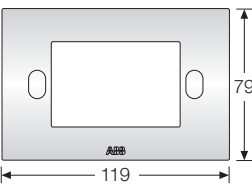
Self-supporting frames

2 modules



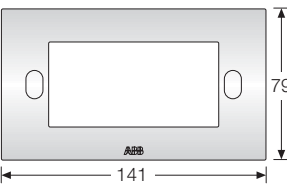
Screw distance: 60 mm

3 modules



Screw distance: 83.5 mm

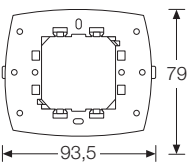
4 modules



Screw distance: 108 mm

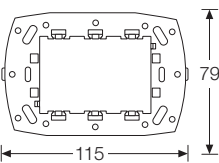
Supports

2 modules



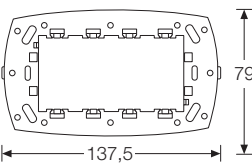
Screw distance of the box: 60 mm

3 modules



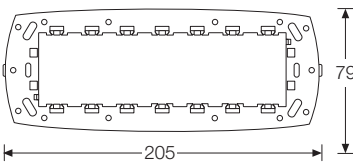
Screw distance of the box: 83.5 mm

4 modules



Screw distance of the box: 108 mm

7 moduli



Screw distance of the box: 100 mm

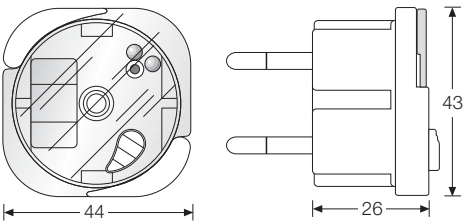
All measurements are in millimetres.

Chiara

Overall dimensions

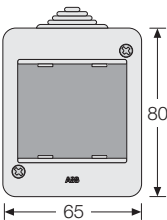
Safety and comfort devices

Anti-blackout light

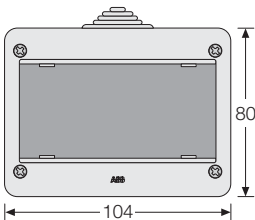


5 IP40 wall-mounted enclosures

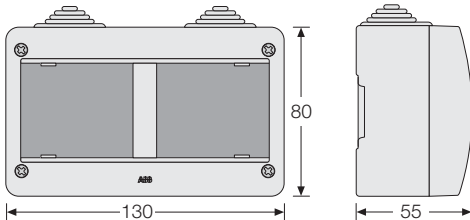
2 modules



3 modules

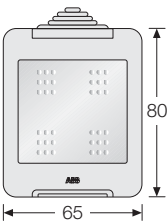


4 modules

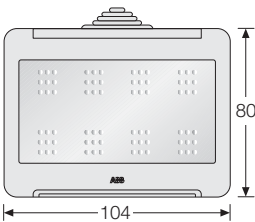


IP55 wall-mounted enclosures

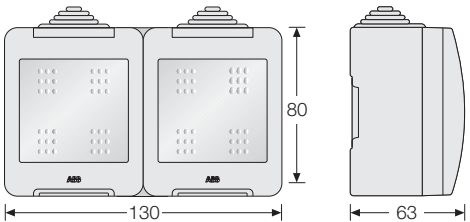
2 modules



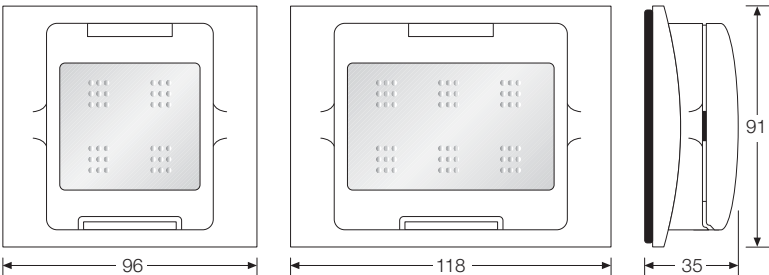
3 modules



4 modules



IP55 flush-mounted escutcheon plate



All measurements are in millimetres.

Contact us

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