

SMARTER BUILDING

# Busch-Presence detectors

## Energy saving the easy way



# Modern light management

## Saving costs with innovation

Presence detectors automatically detect the presence of someone inside the room. Their precision is far superior to that of conventional movement detectors. Not only lighting systems but heating systems and air-conditioning systems can be controlled intelligently and efficiently with presence detectors. Empty rooms in which the lights are on and the air-conditioning runs at full power are now history. There is one presence detector for each need.



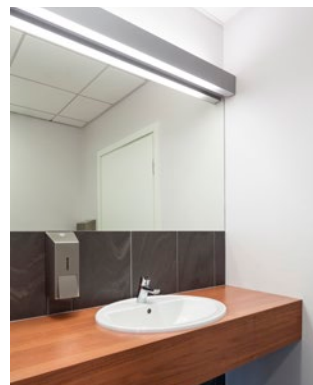
Office single



Office open plan /  
with or without windows



Gym  
Sport facilities



Toilets

### The office champion

If a person works exclusively at a computer, only minimal movement is to be expected. Here detection needs to be especially accurate and precise.

On/off of lights depending on occupancy is only the beginning. Using constant lighting control, the required level of brightness can be achieved using the available “natural light” and the controlled addition of “artificial lighting”. Only the necessary amount of electricity is therefore consumed.

Blinds, as well as heating, ventilation and air-conditioning systems can be controlled efficiently with presence detectors. Practical experience shows that the reduction of the room temperature by 1 °C can reduce the consumption of energy by 6%.

In open space offices a master/slave function allows a difference brightness level between lights closer to the windows and the ones in the middle of the room without the installation of a second light sensor.

ABB offers a wide range of presence detectors to meet the requirements of all type of offices.

### For a spacious area

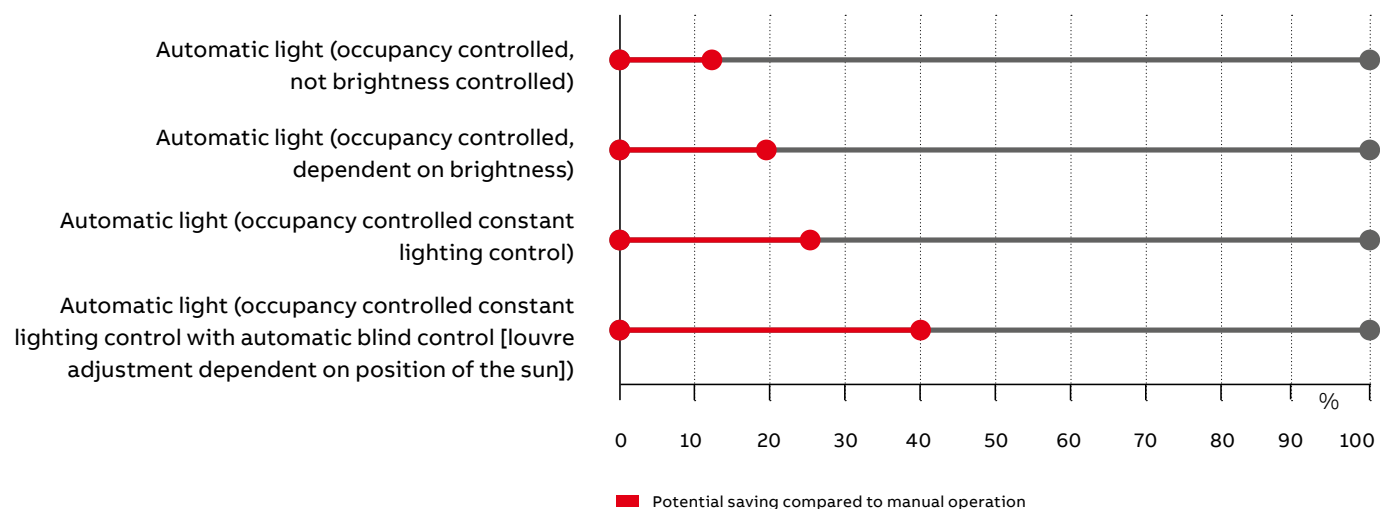
In spacious areas with a high ceiling as gymnasiums and sport facilities, a light control depending on the occupancy (training, game with public, event, etc.) or depending on the outside brightness, can avoid unnecessary expenses.

In this areas the presence detector must accurately detect movement from a great height and at the same time be protected by a protective basket against damage.

Same as before, heating, ventilation and air-conditioning systems can be controlled with presence detectors and help saving energy. For example, if the room temperature is reduced by 3 °C during prolonged absence, 18% of the energy can be saved.

The Busch-Watchdog Presence tech, Busch-Watchdog Presence tech DualLINE and the new Busch-Watchdog Sky KNX are ideal for these areas.

### Potential savings for automatic lighting control \*



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Class rooms /  
Meeting rooms

### Reduced energy consumption

Optimisation of energy efficiency in buildings means for us:

- Only use energy when it is really required
- Only use the amount of energy actually required
- Apply the energy that is used with the highest possible efficiency
- New conventional 230 V or KNX presence detectors designed to meet EN15232:2012

Lighting control is frequently accredited with a high level of potential savings for electrical energy. Not only the cost of electricity is reduced, but lamps are conserved and the investment pays for itself within just a few years.

### In class or meeting rooms

During meetings, conferences or presentations, people tend to move very little over a period of time. Detection needs to be fast, accurate and precise.

In case of presentations with a projector, the lights can be dimmed down manually via a push-button, a remote control or a smartphone APP. If someone forgot to turn the lights off or let the air-conditioning full on, it will turn off after a time without detecting people. Unnecessary energy consumption and therefore cost of electricity is reduced.

The semi-automatic mode available in some detectors allows the lights to be initially activated with the press of a button and to remain active with constant movement in the room. This mode is especially useful in schools.

No matter whether KNX or conventional 230V wiring is used. ABB offers the right product for your installation.

\*Potential savings for automatic lighting control determined by the Biberach University of Applied Sciences with ABB i-bus® KNX components. Results included in the study "Energy saving and efficiency potential through the use of bus technology as well as room and building automation", undertaken in 2008 for ABB.

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# Overview

## Busch-Presence detectors

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### Presence detectors 230 V

Compact devices for almost every application.



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### Busch-Watchdog Presence tech

Versatile due to modular construction.



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### Busch-Watchdog Presence tech BasicLINE

For small offices, toilets, pass-through areas and dedicated applications.



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### Busch-Presence detectors KNX


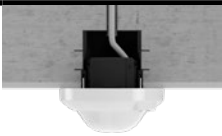


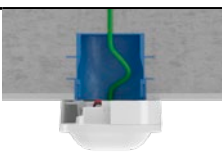
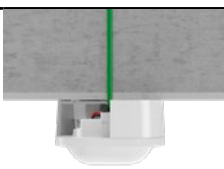
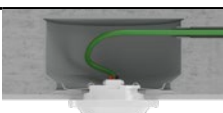












Expertise always works. Almost unnoticed.



# Mounting situations

## Ideal solutions for all wall types

The Busch-Presence detectors can, depending on the model, be used for all popular mounting methods. Necessary accessories are to be obtained either from Busch-Jaeger/ABB or corresponding third-party suppliers.

230 V					
					
KNX					
					
Mounting situation	Suspended ceiling	Flush-mounted installation box VDE	Surface mounted	In-situ concrete	Precast concrete slabs
Notes	Ø 68 mm drill hole diameter			Mounting via special concrete installation boxes	Mounting via special concrete installation boxes
Necessary accessories		KNX: Intermediate ring 6131/38	Surface-mounting box 6885 or Surface-mounting box 6888 KNX: Surface-mounting box 6131/39	E.g. Kaiser HaloX®-O housing: 1290-40 with front part 1281-01 or 1281-61	E.g. Kaiser HaloX-P housing with mineral fibre plate 1291-22
 Busch-Watchdog X	X	–	–	X	–
 Presence tech					
 BasicLINE mini					
 Busch-Watchdog X	X	X	–	X	X
 Presence tech					
 BasicLINE					
 Corridor					
 Busch-Watchdog –		X	X	X	X
 Presence tech					
 Busch-Presence detectors 230 V	X	–	–	X	X
 Busch-Presence detector KNX	X	X	X	X	X
 Busch-Presence detector mini KNX	X	X	X	X	X
 Busch-Presence detector Corridor KNX	X	X	X	X	X
 Busch-Watchdog Sky, KNX	X	X	X	X	X



# Busch-Presence detectors 230 V

## Compact devices for almost every application

The new Busch-Presence detectors has been designed especially for applications that make the highest demands on high-performance technology and on unobtrusive elegant design. The wide product range leaves nothing to be desired. And in a free combination of three lens geometries and switchable and dimmable load output versions it meets all imaginable cases of application. Convenient remote operation and in two attractive design lines.

### Attractive and functional

With its flat and unobtrusive design the new presence detectors of the Busch-Presence detectors elegantly combine both form and function. And this for every taste: classic with white lens and white cover or modern with anthracite coloured lens and a cover in aluminium silver. Together with the optionally available paintable decor cover, the result is a multitude of design options, such as a colour scheme in their corporate design.

### Reliable and high performance

Also the technology is impressive. The outstanding quality of detection of the Busch-Presence detector (640 switching points) is optionally converted reliably and safely by a newly designed high-performance relay, via "e-contact" – a noiseless electronic switching output especially for LEDs – or via DALI (Digital Addressable Lighting Interface) into control commands for lamps and other loads. All devices have an intelligent extension unit input and a master/slave communication. The setting of the most important

device parameters is made easier via the control element accessible at the front. Manual overriding of the device automatics, i.e. activation/deactivation via push-button according to requirement, is possible at all times.

### Convenient and innovative

All Busch-Presence detectors can be easily operated via remote control. Either with an IR remote control or most convenient with a smart app via Bluetooth. Totally new options available: from the parameterization including energy monitor to the new "Comfort automatic" operating mode and up to the individual deactivation and sensitivity setting of the individual sensors, the Bluetooth models leave nothing to be desired. And for exterior use a special version with increased IP protection (drip-proof) is ideally suited. For the highest demands the DALI devices additionally offer further innovative performance features such as a timer-controlled ambient lighting and night-light function or a 2-stage automatic switch off (according to EnEV / EN 15232).

- 01 Busch-Presence detector Compact, e-contact
- 02 Busch-Presence detector Corridor, relay
- 03 Busch-Presence detector Universal BT, DALI





#### All design models

- Can be installed on ceilings with spring bracket
- Additional twist protection via screwed quick tensioning
- Control elements accessible on the front side
- Three lens geometries (Compact, Universal, Corridor)
- Three load output versions (relay, e-contact, DALI)
- Two design versions (white or anthracite coloured lens)
- Removable decor cover, paintable
- Intelligent extension unit input
- Master/slave communication
- Slave presence detector also available in lens geometries (Compact, Universal, Corridor).
- Additional on/off switching possible via push-buttons
- Continuous light / continuous deactivation via special extension unit communication
- Busch extension unit coupling (option)
- LED detection and status indication (only active in defined operating modes)

#### Relay and e-contact

- Newly designed high load relay, for loads with increased switch-on current.
- e-contact, electronic switching output specially for LEDs
- Remote operation via IR remote control 6843 (not applicable for Bluetooth versions).

#### Additional Bluetooth features

- Parameterizable and operable via smart app
- Energy monitor to display the energy cost savings
- New "Comfort automatic" operating mode
- Individual deactivation and adjustment of sensitivity of individual sensors possible
- With selectable presence simulation when no one is present

#### Additional DALI features

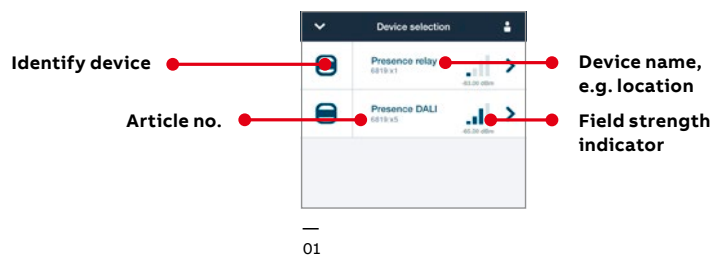
- Parameterizable and operable via smart app via Bluetooth
- DALI slave for direct connection to the DALI bus
- Soft ON/OFF function activation
- With additional switching output for the activation of heating, air conditioning and ventilation or for switching additional loads (e.g. panel light).
- Additional switching output also configurable for the complete deactivation of the DALI operating devices.
- Supplies the required current for an additional 45 DALI operating devices and controllers.
- With ambient lighting function, start and end time parameterizable
- With selectable warm-up function for fluorescent lamps.
- With 2-step automatic switch-off (according to EnEV / EN 15232)
- With time dependent night light function

A detailed listing of all technical performance features is available in the following product overview.

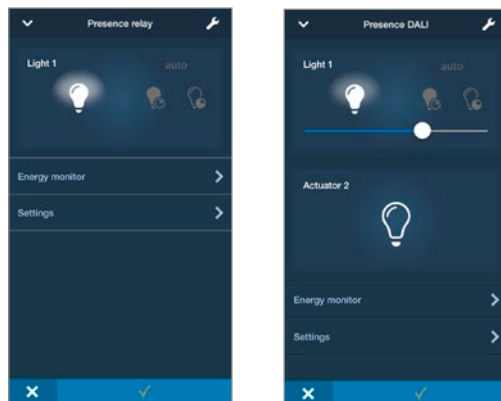
# ABB Watchdog Remote control

The new generation of ABB presence detectors with integrated Bluetooth interface can be remotely controlled and parameterised via a smartphone or tablet APP. For example the following functions are adjustable:

01 Selection of the presence detector to be controlled, via the device list with field strength display and fast identification push button.



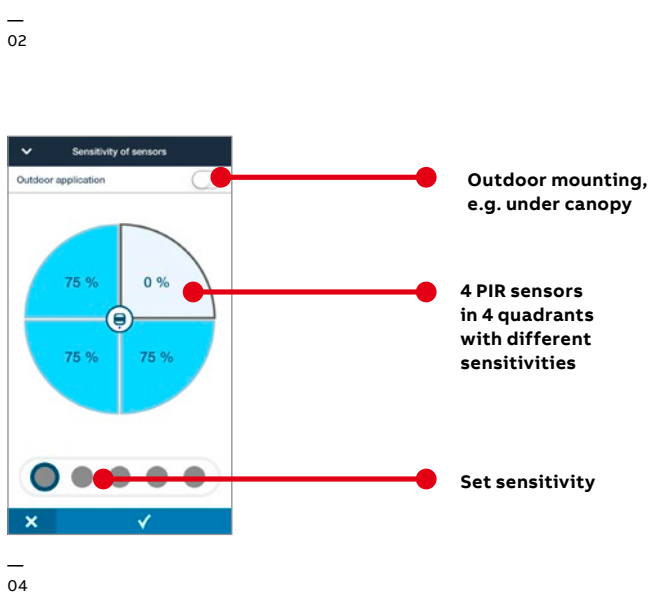
02 Direct switching and dimming of the connected load



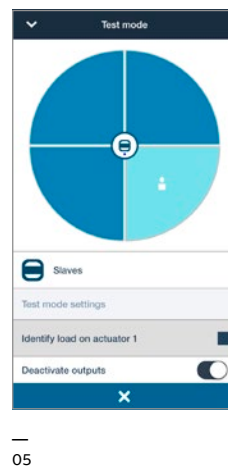
03 Energy monitor (rough overview of energy cost with / without presence detectors)



04 Sensitivity of sensors



05 test mode

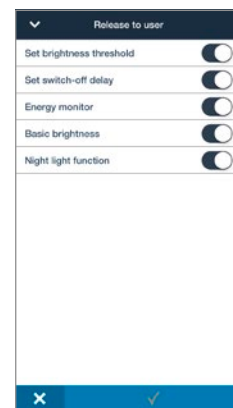
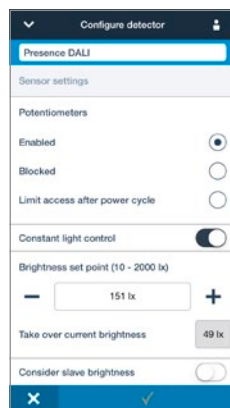
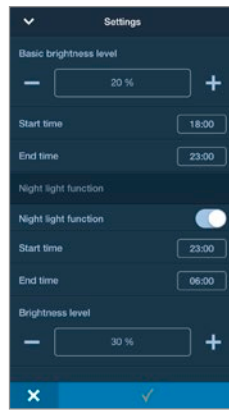
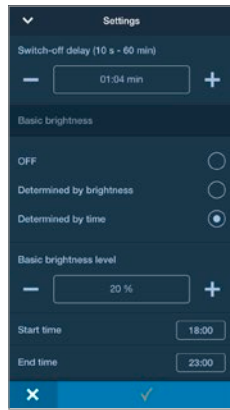




—  
06 Activation  
of presence  
simulation (if you  
are not at home) /  
basic brightness  
and nightlight  
—

07 Set device  
(Bluetooth)  
name and device  
parameters  
—

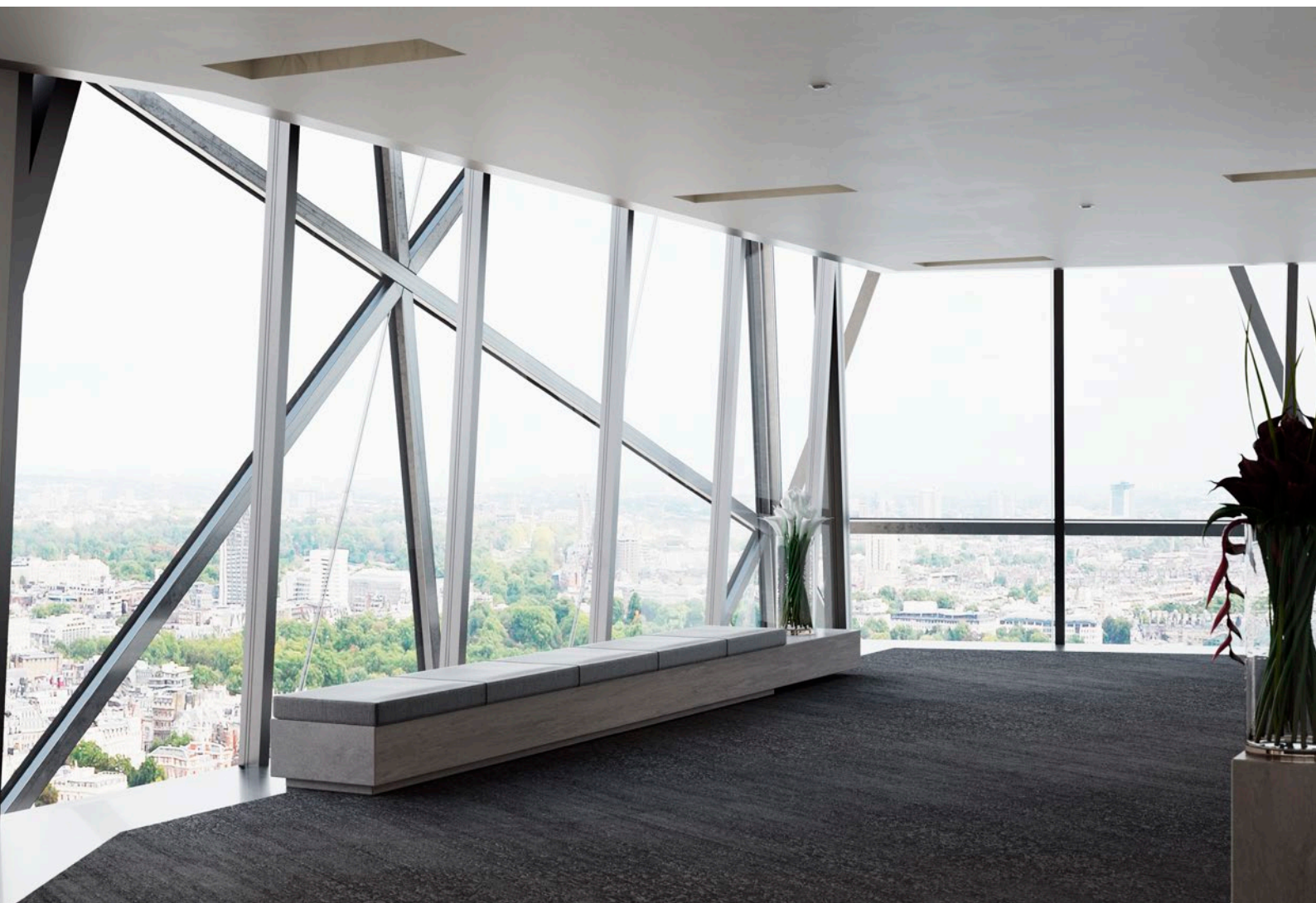
08 Release specific  
functions to user  
—



06

07

08



# Busch-Watchdog Presence tech BasicLINE

## For small offices, toilets, pass-through areas and dedicated applications.

### For pass-through and small offices

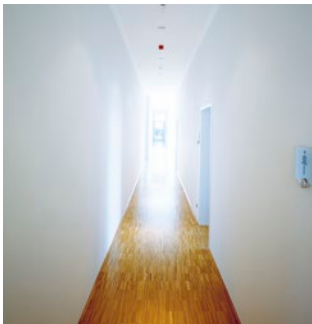
Lights in corridors where people only pass-by should be only switched on when a person is detected and switched off as soon as they leave the area or after a selected delay time. The persons do not need to actuate a button or switch. Switch off of the lighting is assured. This saves both energy and costs.

With only one Busch-Watchdog Presence tech BasicLINE Corridor a detection range up to 24m detection area at 3m installation height is possible. The use of a special surface mounting box makes the Busch-Watchdog suitable also for use in outdoor areas. The most important functions of the Corridor presence detector can also be remote controlled via the IR service manual transmitter 6843.

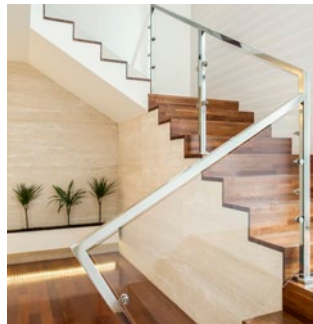
### For toilets and small rooms

Lighting control depending on the occupancy in toilets, cabinets and other small rooms can avoid unnecessary expenses and alert about remained people after hours.

The Busch-Watchdog Presence tech BasicLINE mini sensor is extremely flat and easy to install in the false ceiling. This is then connected with the switch actuator via a 60 cm long connecting line with a preassembled Western plug. The actuator can also be easily installed in the suspended ceiling.



Corridors /  
Outdoor applications



Living rooms /  
Staircase



Toilets



Cabinets /  
Small rooms

The choice of the right model depends on the height of the ceiling, the size of the room, the installation situation and the type of movement to be detected. ABB offers the right solution for each situation:

01 Busch-Watchdog  
Presence tech  
BasicLINE Corridor

02 Busch-Watchdog  
Presence tech BasicLINE

03 Busch-Watchdog  
Presence tech  
BasicLINE mini



01



02



03



# Busch-Presence detectors KNX

## Expertise always works. Almost unnoticed.

- New flat line design with the best detection quality
- New applications for cost efficiency
- Native ETS4/5 application with firmware update via bus
- Variations and options in functions, sizes, colours and installation heights
- New KNX presence detectors designed to meet EN15232:2012



Aluminium silver with black lens\*



Busch-Presence detector mini KNX

80 mm

16 mm (visible height)

### Leading technology

The technically high-quality Busch-Presence detectors KNX answer perfectly to the needs of modern buildings. Control, monitoring and integration of lights, blinds, heating and many other areas now easily made with a native ETS4/5 application.

### An option for every need.

The Busch-Presence detector KNX, the Busch-Presence detector mini KNX and the Busch-Presence detector Corridor KNX are available in two versions: basic and premium with extended functionality. The variety in technical functions, sizes, colours and detection ranges offers a wide field of applications. Now there is an option for every need.

### Seeing without being seen.

The flat design allows to blend in into the interior without compromising the full presence detection functionally. Aesthetics and functionality perfectly combined.

### Easy to install at every height.

The Busch-Watchdog Sky KNX, made for high ceiling installations, offers the right functions especially in high altitudes. Moreover, all Busch-Presence detectors KNX offer simple ceiling mounting by spring clips or with the new surface-mounting boxes with bayonet lock. In addition all detectors despite the mini version can be installed on VDE flush-mounting boxes by using the intermediate ring.

\*) Colour combination not available for Busch-Watchdog Sky KNX and Busch-Presence detector Corridor KNX.

## Technical data

### Busch-Presence detectors 230 V

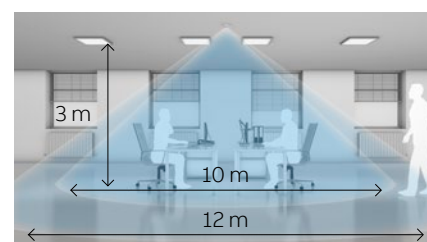
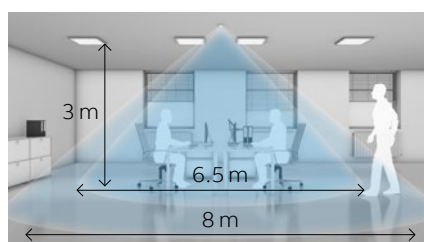


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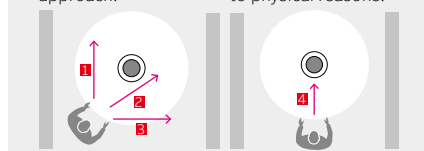
Products	Busch-Presence detector Compact, relay	Busch-Presence detector Universal, relay
Article number	6819/60-24-500 6819/60-183-500	6819/30-24-500 6819/30-183-500
Devicetype	Master <sup>1)</sup>	Master <sup>1)</sup>
Half- / automatic / comfort automatic mode	yes / yes / -	yes / yes / -
Detection range:		
Mounting height	2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m
sitting	5 m / 6.5 m / -	8 m / 10 m / -
walking (lateral / diagonal)	6.5 m / 8 m / 10.5 m	10 m / 12 m / 16 m
walking (frontal)	4.5 m / 6 m / 7 m	7 m / 8 m / 10 m
Sensitivity adjustment	-	-
Number of channels	1	1
<b>Load<sup>2)</sup>:</b>		
LEDi	200 VA	200 VA
LEDs with konverter	200 VA	200 VA
Incandescent lamps	2300 W	2300 W
HV halogen lamps	2300 W	2300 W
LV halogen lamps with electr. transformer	2300 VA	2300 VA
Flourescent lamps	2300 VA	2300 VA
Electr. fan engines	-	-
Inrush current max.:	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs
2-stage power-off (EN15232)	-	-
PIR / individually activated	4 / -	4 / -
2 light bands / HVAC / backboard light	- / - / -	- / - / -
Intern brightness sensor	yes	yes
Remote controlable	yes, via IR service-remote control 6843	yes, via IR service-remote control 6843
False ceilings via spring brackets	yes	yes
Surface mounted	-	-
Flush-mounting	-	-
Mounting depth (fm box / ceiling mount):	- / 49 mm	- / 49 mm
Mounting dimensions:	Ø 68 mm	Ø 68 mm
Visible hight:	23 mm	23 mm
Protection class (sensor / akttuator)	IP 40	IP 40



- 1 Lateral approach to the detector.
- 2 Diagonal approach to the detector.
- 3 Lateral approach to the detector.
- 4 Frontal approach to the detector.

Optimum detection at lateral or diagonal approach.

Reduced detection at frontal approach due to physical reasons.



#### Technical details

The Busch-Presence detectors consist of two parts lense and 4 PIR sensors. The maximum detection range depends on the mounting site and ambient conditions.



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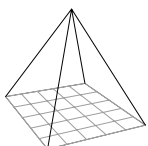
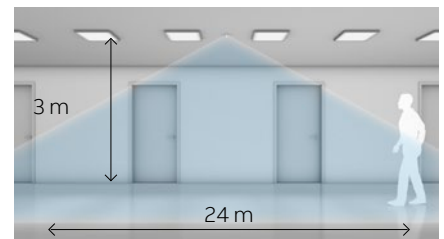
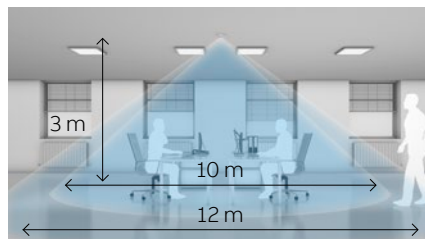
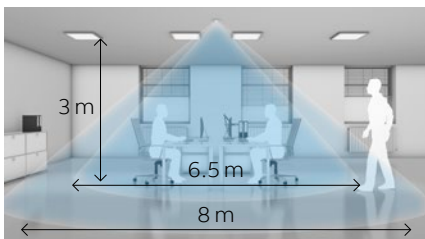


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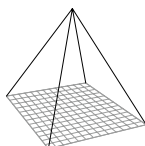


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Busch-Presence detector Compact, e-contact	Busch-Presence detector Universal, e-contact	Busch-Presence detector Corridor, relay
6817/62-24-500 6817/62-183-500	6817/32-24-500 6817/32-183-500	6819/50-24-500 6819/50-183-500
Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>
yes / yes / -	yes / yes / -	yes / yes / -
2.5 m / 3 m / 4 m 5 m / 6.5 m / - 6.5 m / 8 m / 10.5 m 4.5 m / 6 m / 7 m -	2.5 m / 3 m / 4 m 8 m / 10 m / - 10 m / 12 m / 16 m 7 m / 8 m / 10 m -	2.5 m / 3 m / 4 m - / - / - 24 m x 2.5 m / 24 m x 3 m / 24 m x 3 m 14 m x 2.5 m / 14 m x 3 m / 14 m x 3 m -
1	1	1
3 - 200 VA 3 - 200 VA 3 - 200 W 3 - 200 W 3 - 200 VA 3 - 200 VA -	3 - 200 VA 3 - 200 VA 3 - 200 W 3 - 200 W 3 - 200 VA 3 - 200 VA -	200 VA 200 VA 2300 W 2300 W 2300 VA 2300 VA -
165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs
-	-	-
4 / - - / - / -	4 / - - / - / -	4 / - - / - / -
yes	yes	yes
yes, via IR service- remote control 6843	yes, via IR service- remote control 6843	yes, via IR service- remote control 6843
yes	yes	yes
-	-	-
-	-	-
- / 36 mm	- / 36 mm	- / 49 mm
Ø 68 mm	Ø 68 mm	Ø 68 mm
23 mm	23 mm	27 mm
IP 40	IP 40	IP 40



—  
Detection system  
of conventional  
movement detectors



—  
Busch-Presence  
detection system

#### There is no better way.

The detection system consisting of four sensors and mirrors is far superior to conventional movement sensors. Even the smallest movement is reliably detected and triggers a response.

<sup>1)</sup> Slave version available

<sup>2)</sup> at 230 V~ main voltage



## Technical data

### Busch-Presence detectors 230 V

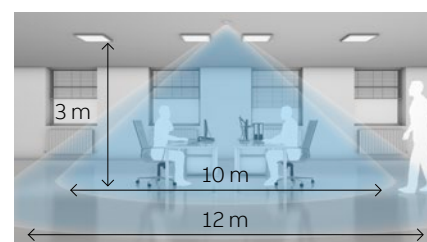
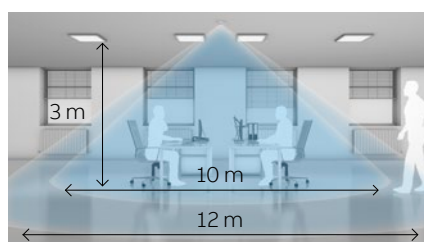


NEW



NEW

Products	Busch-Presence detector Universal BT, relay	Busch-Presence detector Universal BT, e-contact
Article number	6819/31-24-500 6819/31-183-500	6819/33-24-500 6819/33-183-500
Devicetype	Master <sup>1)</sup>	Master <sup>1)</sup>
Half- / automatic / comfort automatic mode	yes / yes / yes	yes / yes / yes
Detection range:		
Mounting height	2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m
sitting	8 m / 10 m / -	8 m / 10 m / -
walking (lateral / diagonal)	10 m / 12 m / 16 m	10 m / 12 m / 16 m
walking (frontal)	7 m / 8 m / 10 m	7 m / 8 m / 10 m
Sensitivity adjustment	yes	yes
Number of channels	1	1
<b>Load<sup>2)</sup>:</b>		
LEDi	200 VA	3 - 200 VA
LEDs with konverter	200 VA	3 - 200 VA
Incandescent lamps	2300 W	3 - 200 W
HV halogen lamps	2300 W	3 - 200 W
LV halogen lamps with electr. transformer	2300 VA	3 - 200 VA
Flourescent lamps	2300 VA	3 - 200 VA
Electr. fan engines	-	-
Inrush current max.:	165 A / 20 ms // 350 A / 200 µs	165 A / 20 ms // 350 A / 200 µs
2-stage power-off (EN15232)	-	-
PIR / individually activated	4 / 4	4 / 4
2 light bands / HVAC / backboard light	- / - / -	- / - / -
Intern brightness sensor	yes	yes
Remote controlable	yes, Smartphone APP via Bluetooth	yes, Smartphone APP via Bluetooth
False ceilings via spring brackets	yes	yes
Surface mounted	-	-
Flush-mounting	-	-
Mounting depth (fm box / ceiling mount):	- / 49 mm	- / 36 mm
Mounting dimensions:	Ø 68 mm	Ø 68 mm
Visible hight:	23 mm	23 mm
Protection class (sensor / acktuator)	IP 40	IP 40





NEW

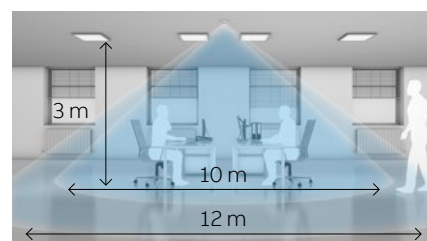
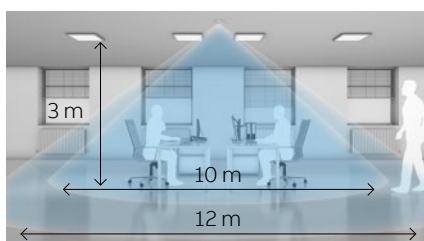
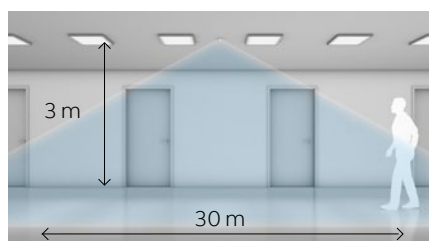


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NEW

Busch-Presence detector Corridor BT, relay	Busch-Presence detector Universal BT, e-contact with sealing ring	Busch-Presence detector Universal BT, DALI
6819/51-24-500 6819/51-183-500	6817/93-24-500 6817/93-183-500	6819/35-24-500 6819/35-183-500
Master <sup>1)</sup>	Master <sup>1)</sup>	Master <sup>1)</sup>
yes / yes / yes	yes / yes / yes	yes / yes / yes
2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m
- / - / -	8 m / 10 m / -	8 m / 10 m / -
24 m x 2.5 m / 30 m x 3 m / 30 m x 3 m	10 m / 12 m / 16 m	10 m / 12 m / 16 m
18 m x 2.5 m / 20 m x 3 m / 20 m x 3 m	7 m / 8 m / 10 m	7 m / 8 m / 10 m
yes	yes	yes
1	1	2
200 VA	3 - 200 VA	200 VA
200 VA	3 - 200 VA	200 VA
2300 W	3 - 200 W	1380 W
2300 W	3 - 200 W	1380 W
2300 VA	3 - 200 VA	1380 VA
2300 VA	3 - 200 VA	1380 VA
-	-	1380 VA
165 A / 20 ms //	165 A / 20 ms //	165 A / 20 ms //
350 A / 200 µs	350 A / 200 µs	350 A / 200 µs
-	-	yes
4 / 4	4 / 4	4 / 4
- / - / -	- / - / -	- / yes / yes
yes	yes	yes
yes, Smartphone APP via Bluetooth	yes, Smartphone APP via Bluetooth	yes, Smartphone APP via Bluetooth
yes	yes	yes
-	-	-
-	-	-
- / 49 mm	- / 36 mm	- / 60 mm
Ø 68 mm	Ø 68 mm	Ø 68 mm
27 mm	23 mm	23 mm
IP 40	IP 41	IP 40



<sup>1)</sup> Slave version available

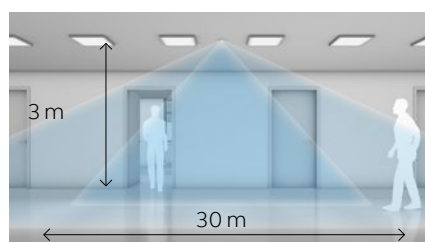
<sup>2)</sup> at 230 V~ main voltage

## Technical data

### Busch-Presence detectors 230 V

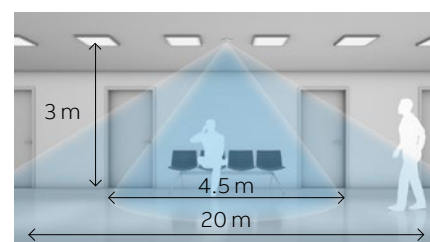
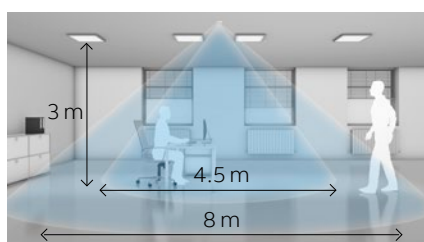
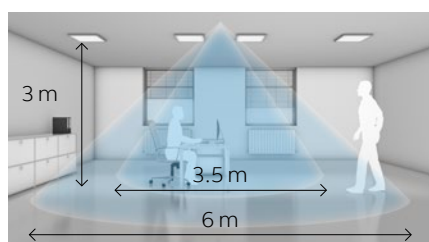


Products	Busch-Presence detector Corridor BT, DALI
Article number	6819/55-24-500 6819/55-183-500
Devicetype	Master <sup>1)</sup>
Half- / automatic / comfort automatic mode	yes / yes / yes
Detection range:	
Mounting height	2.5 m / 3 m / 4 m
sitting	- / - / -
walking (lateral / diagonal)	24 m x 2,5 m / 30 m x 3 m / 30 m x 3 m
walking (frontal)	18 m x 2,5 m / 20 m x 3 m / 20 m x 3 m
Sensitivity adjustment	yes
Number of channels	2
<b>Load<sup>2)</sup>:</b>	
LEDi	200 VA
LEDs with konverter	200 VA
Incandescent lamps	1380 W
HV halogen lamps	1380 W
LV halogen lamps with electr. transformer	1380 VA
Flourescent lamps	1380 VA
Electr. engines	1380 VA
Inrush current max.:	165 A / 20 ms // 350 A / 200 µs
2-stage power-off (EN152321)	yes
PIR / individually activated	4 / 4
2 light bands / HVAC / backboard light	- / yes / yes
Intern brightness sensor	yes
Remote controlable	yes, Smartphone APP via Bluetooth
False ceilings via spring brackets	yes
Surface mounted	-
Flush-mounting	-
Mounting depth (fm box / ceiling mount):	- / 60 mm
Mounting dimensions <sup>3)</sup> :	Ø 68 mm
Visible hight:	27 mm
Protection class (sensor / acktuator)	IP 40





Busch-Watchdog Presence tech BasicLINE mini	Busch-Watchdog Presence tech BasicLINE	Busch-Watchdog Presence tech BasicLINE Corridor
6811 EB-500	6814 U-500	6818 U-500
Single device	Single device	Single device
- / yes / -	yes / yes / -	- / yes / -
2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m
3 m / 3.5 m / -	4 m / 4.5 m / -	4 m / 4.5 m / -
5 m / 6 m / 8 m	7 m / 8 m / 10 m	24 m / 20 m / -
ns	4 m / 3 m / 2 m	ns
yes	-	-
1	1	1
200 VA	200 VA	200 VA
200 VA	200 VA	200 VA
2000 W	2000 W	2000 W
1000 W	1000 W	1000 W
2000 VA	2000 VA	2000 VA
1000 VA	1000 VA	1000 VA
-	-	-
80 A / 20 ms	80 A / 20 ms	80 A / 20 ms
-	-	-
1 / -	1 / -	4 / -
- / - / -	- / - / -	- / - / -
yes	yes	yes
-	-	yes, via IR service-remote control 6843
yes	yes	yes
-	-	yes
-	yes	yes
180 mm	28 mm / 41 mm	18 mm / 48 mm
32 mm	65 mm	64 mm
10 mm	31 mm	57 mm
IP 40 / IP 20	IP 40	IP 40 / IP 54 <sup>3)</sup>



<sup>1)</sup> Slave version available

<sup>2)</sup> at 230 V~ main voltage

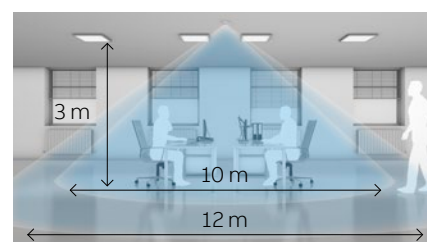
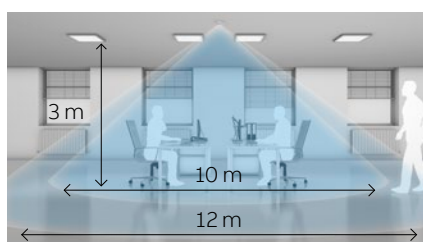
<sup>3)</sup> only with surface mount box

## Technical data

### Busch-Presence detectors 230 V



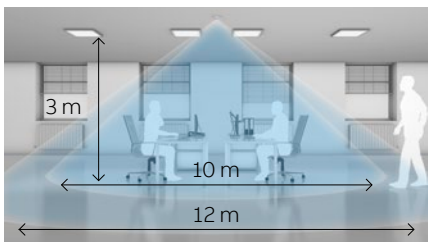
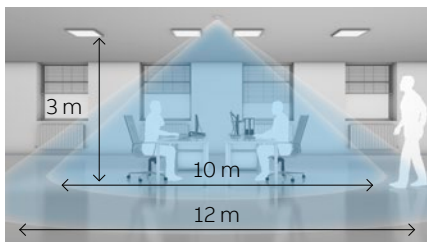
Products	Busch-Watchdog Presence tech	Busch-Watchdog Presence tech
Article number	6813-101-500 & 6401 U-102-500 6813-183-101-500 & 6401 U-102-500	6813-101-500 & 6402 U-500 6813-183-101-500 & 6402 U-500
Devicetype	Master <sup>1)</sup>	Master <sup>1)</sup>
Half- / automatic / comfort automatic mode	- / yes / -	- / yes / -
Detection range:		
Mounting height	2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m
sitting	8 m / 10 m / -	8 m / 10 m / -
walking (lateral / diagonal)	10 m / 12 m / 16 m	10 m / 12 m / 16 m
walking (frontal)	6 m / 7 m / 9 m	6 m / 7 m / 9 m
Sensitivity adjustment	-	-
Number of channels	1	2
<b>Load<sup>2)</sup>:</b>		
LEDi	200 VA	200 VA
LEDs with konverter	200 VA	200 VA
Incandescent lamps	2300 W	2300 W
HV halogen lamps	2300 W	2300 W
LV halogen lamps with electr. transformer	2300 VA	2300 VA
Flourescent lamps	2300 VA	2300 VA
Electr. engines	-	-
Inrush current max.:	80 A / 20 ms	80 A / 20 ms
2-stage power-off (EN152321)	-	-
PIR / individually activated	4 / -	4 / -
2 light bands / HVAC / backboard light	- / - / -	- / yes / -
Intern brightness sensor	yes	yes
Remote controlable	yes, via IR remote control 6010-25	yes, via IR remote control 6010-25
False ceilings via spring brackets	-	-
Surface mounted	yes	yes
Flush-mounting	yes	yes
Mounting depth (fm box / ceiling mount):	32 mm / -	32 mm / -
Mounting dimensions <sup>3)</sup> :	-	-
Visible hight:	51 mm	51 mm
Protection class (sensor / acktuator)	IP 20	IP 20







Busch-Watchdog Presence tech DualLINE	Busch-Watchdog Presence tech DualLINE
6813/11-24-500 & 6402 U-500 6813/11-183-500 & 6402 U-500	6813/11-24-500 & 6550 U-101-500 6813/11-183-500 & 6550 U-101-500
Master <sup>1)</sup>	Master <sup>1)</sup>
yes / yes / -	yes / yes / -
2.5 m / 3 m / 4 m	2.5 m / 3 m / 4 m
8 m / 10 m / -	8 m / 10 m / -
10 m / 12 m / 16 m	10 m / 12 m / 16 m
6 m / 7 m / 9 m	6 m / 7 m / 9 m
-	-
2	1
200 VA	-
200 VA	200 VA
2300 W	-
2300 W	-
2300 VA	-
2300 VA	700 VA
-	-
80 A / 20 ms	-
-	-
4 / -	4 / -
yes / - / -	- / - / -
yes	yes
yes, via IR remote control 6010-25	yes, via IR remote control 6010-25
-	-
yes	yes
yes	yes
32 mm / -	32 mm / -
-	-
51 mm	51 mm
IP 20	IP 20



<sup>1)</sup> Slave version available

<sup>2)</sup> at 230 V~ main voltage

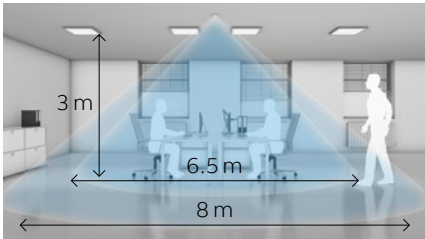
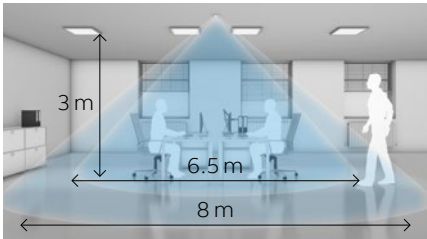
Efficiency at the workplace.

Busch-Presence detectors KNX.

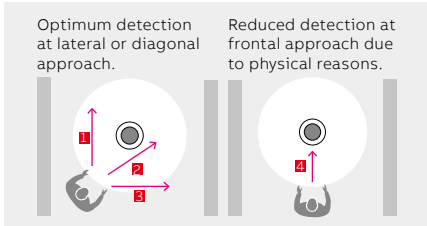
KNX



Products	Busch-Presence detector mini KNX	Busch-Presence detector mini premium KNX
Article number	6131/20-24-500 6131/20-183-500	6131/21-24-500 6131/21-183-500
Integrated bus coupler	yes	yes
Detection range:		
Mounting height	2.5 m / 3.0 m / 4.0 m	2.5 m / 3.0 m / 4.0 m
sitting	5.0 m / 6.5 m / -	5.0 m / 6.5 m / -
walking (lateral/diagonal)	6.5 m / 8.0 m / 10.5 m	6.5 m / 8.0 m / 10.5 m
Number of channels	2	4
Channels per operating mode:		
movement detector	2	4
constant light switch	2 x 2	4 x 2
constant light controller	-	2 x 2
monitoring function	2	4
2-stage power-off (EN15232 <sup>1</sup> )	yes (only movement detector)	yes (movement detector + constant light controller)
PIR/ individually activated	4	4
Integrated RTC + sensor	-	yes
Heating / Cooling / ventilation function	-	yes
Intern brightness sensor	yes	yes
External brightness sensor inputs	2	2
Programming mode via IR remote control 6010-25-500 <sup>2</sup>	-	yes
IR channels	-	14 pair / 24 single and programming mode
Logic channel	-	5
False ceilings via spring brackets	yes	yes
Surface mounted	IP 20 (6131/29-xx-500)	IP 20 (6131/29-xx-500)
Flush-mounting	yes <sup>3</sup>	yes <sup>3</sup>



- 1 Lateral approach to the detector.
- 2 Diagonal approach to the detector.
- 3 Lateral approach to the detector.
- 4 Frontal approach to the detector.



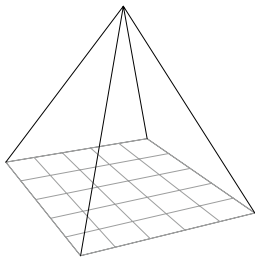
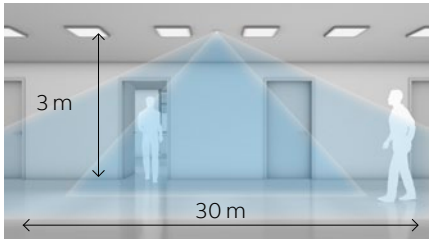
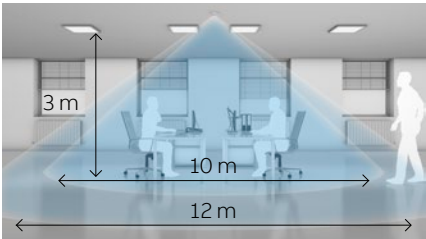
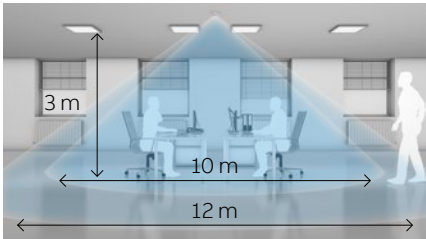
Technical details

The Busch-Presence detectors consist of two parts lense and 4 PIR sensors. The maximum detection range depends on the mounting site and ambient conditions.

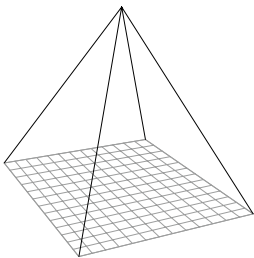


NEW

Busch-Presence detector KNX	Busch-Presence detector premium KNX	Busch-Presence detector Corridor KNX
6131/30-24-500 6131/30-183-500	6131/31-24-500 6131/31-183-500	6131/50-24-500 6131/50-183-500
yes	yes	yes
2.5m / 3.0m / 4.0m 8m / 10m / - 10m / 12m / 16m	2.5m / 3.0m / 4.0m 8m / 10m / - 10m / 12m / 16m	2.5m / 3.0m / 4.0m - / - / - 24.0 x 2.5 m / 30.0 x 3.0 m / 30.0 x 3.0 m
2	4	2
2 2x2 - 2	4 4x2 2x2 4	2 2x2 - 2
yes (only movement detector)	yes (movement detector + constant light controller)	yes (only movement detector)
4	4	2x2
-	yes	-
-	yes	-
yes	yes	yes
2	2	2
-	yes	-
-	14 pair / 24 single and programming mode	-
-	5	-
yes	yes	yes
IP 20 (6131/39-xx-500)	IP 20 (6131/39-xx-500)	IP 20 (6131/39-xx-500)
yes <sup>3</sup>	yes <sup>3</sup>	yes <sup>3</sup>



01



02

**There is no better way.**  
The detection system consisting of four sensors and mirrors is far superior to conventional movement sensors. Even the smallest movement is reliably detected and triggers a response.

01 Detection system of conventional movement detectors

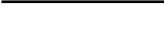







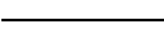



02 Busch-Presence detection system

<sup>1)</sup> Following the new European Standard EN 15232 “Energy performance of buildings – Impact of Building Automation, Controls and Building Management”

<sup>2)</sup> IR remote control to be ordered separately

<sup>3)</sup> Via installation housing e.g. Kaiser HaloX-O art.no. 1290-40 with corresponding cover plates



Busch-Presence detectors

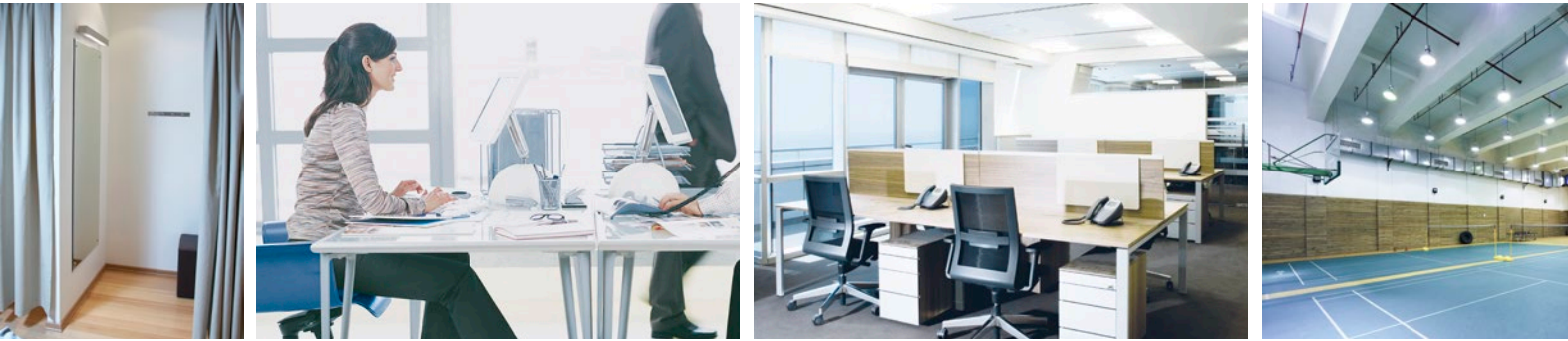
Application										
Mounting situation										
			Relais	2. Relais	Electronic switching contact	1-10 V	DALI	KNX	Extendable via slave	Remote control possible
Picture	Products	Article number								
	Busch-Watchdog Presence tech BasicLINE mini	6811 EB	X							-
	Busch-Watchdog Presence BasicLINE	6814 U	X							-
	Busch-Watchdog Presence tech BasicLINE Corridor	6818 U	X							
	Busch-Watchdog Presence tech	6813-101-... & 6401 U-102	X						X	
	Busch-Watchdog Presence tech	6813-101-... & 6402 U		X					X	
	Busch-Watchdog Presence tech DualLINE	6813/11-... & 6401 U-102	X						X	
	Busch-Watchdog Presence tech DualLINE	6813/11-... & 6402 U		X					X	
	Busch-Watchdog Presence tech DualLINE	6813/11-... & 6550 U-101				X			X	
	Busch-Presence detector Compact, relay	6819/60-...	X						X	
	Busch-Presence detector Universal, relay	6819/30-...	X						X	
	Busch-Presence detector Compact, e-contact	6817/62-...			X				X	
	Busch-Presence detector Universal, e-contact	6817/32-...			X				X	
	Busch-Presence detector Corridor, relay	6819/50-...	X						X	
	Busch-Presence detector Universal BT, relay	6819/31-...	X						X	
	Busch-Presence detector Universal BT, e-contact	6819/33-...			X				X	
	Busch-Presence detector Corridor BT, relay	6819/51-...	X						X	
	Busch-Presence detector Universal BT, e-contact	6819/33-...			X					
	Busch-Presence detector Universal BT, DALI	6819/35-...	X				X		X	
	Busch-Presence detector Corridor BT, DALI	6819/55-...	X				X		X	
	Busch-Presence detector Mini KNX	6131/20-...						X	X	
	Busch-Presence detector KNX	6131/30-...						X	X	
	Busch-Presence detector Corridor KNX	6131/50-...						X	X	
	Busch-Presence detector mini premium KNX	6131/21-...						X	X	
	Busch-Presence detector premium KNX	6131/31-...						X	X	
	Busch-Presence detector Corridor premium KNX	6131/51-...						X	X	
	Busch-Watchdog Sky KNX	6131/40-...						X	X	

Legend:

FC: false ceiling (spring / claw mount)  
FM: flush mount in VDE flush mounting box  
FMR: flush mount in VDE flush mounting box with additional intermediate ring  
CM: concrete mount in defined concrete flush mounting boxes  
SMB: surface mount with additional surface mount box

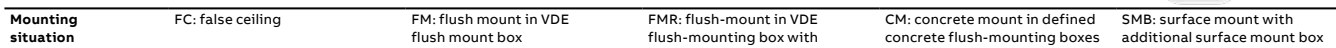
- ✓ recommended
- needed and additional functions
- not suitable

 fulfill needed functional requirements  
 under restrictions, check detection range and resolution



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230 V



**for further information see page 5**







Efficiency at the workplace.

Busch-Presence detectors KNX.

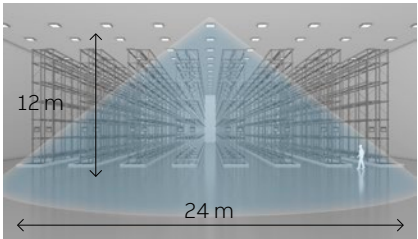
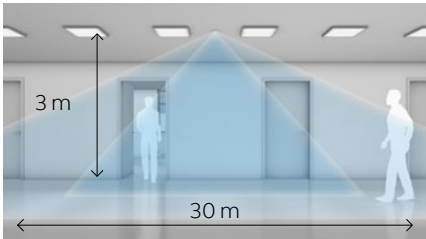
KNX



NEW



Products	Busch-Presence detector Corridor premium KNX	Busch-Watchdog Sky KNX
Article number	6131/51-24-500 6131/51-183-500	6131/40-24-500
Integrated bus coupler	yes	yes
Detection range:		
Mounting height	2.5m / 3.0m / 4.0m	6.0m / 12.0m
sitting	- / - / -	
walking (lateral/diagonall)	24.0 x 2.5 m / 30.0 x 3.0 m / 30.0 x 3.0 m	18.0m / 24.0m
Number of channels	2	2
Channels per operating mode:		
movement detector	4	2
constant light switch	4x2	2
constant light controller	2x2	-
monitoring function	4	2
2-stage power-off (EN15232 <sup>1)</sup> )	yes (movement detector + constant light controller)	yes (only movement detector)
PIR/ individually activated	2 x 2	4
Integrated RTC + sensor	yes	-
Heating / Cooling / ventilation function	yes	-
Intern brightness sensor	yes	yes
External brightness sensor inputs	2	2
Programming mode via IR remote control 6010-25-500 <sup>2)</sup>	yes	yes
IR channels	14 pair / 24 single and programming mode	Only programming mode
Logic channel	5	-
False ceilings via spring brackets	yes	yes
Surface mounted	IP 20 (6131/39-xx-500)	IP 20 (6131/39-xx-500)
Flush-mounting	yes <sup>3)</sup>	yes <sup>3)</sup>










<sup>1)</sup> Following the new European Standard EN 15232 “Energy performance of buildings – Impact of Building Automation, Controls and Building Management”

<sup>2)</sup> IR remote control to be ordered separately

<sup>3)</sup> Via installation housing e.g. Kaiser HaloX-O  
art.no. 1290-40 with corresponding cover plates

## Selection of the correct KNX detector for each respective application.

Function	Mini Basic	Mini Premium	Basic	Premium	Corridor Basic	Corridor Premium	Sky
	6131/20-xxx-500	6131/21-xxx-500	6131/30-xxx-500	6131/31-xxx-500	6131/50-xxx-500	6131/51-xxx-500	6131/40-xxx-500
							
<b>General</b>							
Type of installation	flush-mounted/surface-mounted						
Programming button accessible from outside	X	X	X	X	X	X	X
<b>Number of channels</b>							
Movement detector	2	4 in total	2	4 in total	2	4 in total	2
Constant light switch	2		2		2		2
Combination	1 x each		1 x each		1 x each		1 x each
Constant light controller	–	2	–	2	–	2	–
Heating/cooling/ventilation systems (HVAC)	–	1	–	1	–	1	–
Infrared receiver, can be operated via IR remote control 6010-25	–	10 button pairs + 4 single buttons/24 single buttons	–	10 button pairs + 4 single buttons/24 single buttons	–	10 button pairs + 4 single buttons/24 single buttons	(only red for activation of the programming mode)
<b>Two power-off stages</b>							
Movement detector	X	X	X	X	X	X	X
Constant light control	–	X	–	X	–	X	–
<b>Application</b>							
Surveillance detector	X	X	X	X	X	X	X
Movement detector	X	X	X	X	X	X	X
Presence detector	X	X	X	X	X	X	–
Constant light switch	X	X	X	X	X	X	X
Controller independent of movement	–	X	–	X	–	X	–
<b>Various</b>							
Integrated object room temperature controller with temperature sensor	–	1	–	1	–	1	–
Brightness measurement	X	X	X	X	X	X	X
Calibration of brightness sensor via ETS group objects	X	X	X	X	X	X	X
Programming mode can be activated via IR remote control 6010-25	–	X	–	X	–	X	X
Programming LED can be activated via ETS group objects	X	X	X	X	X	X	X
Number of logic functions (4 different ones)	–	5	–	5	–	5	–








X = Function is supported

– = Function is not supported

## Intelligent technology











in detail



	<b>Busch-Presence detector Compact, relay</b>	<b>Busch-Presence detector Universal, relay</b>
Article no./order no.	studio white matt 6819/60-24-500 / 2CKA006800A2732 aluminium silver 6819/60-183-500 / 2CKA006800A2767	studio white matt 6819/30-24-500 / 2CKA006800A2735 aluminium silver 6819/30-183-500 / 2CKA006800A2769
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 6,5 m, walking persons: up to Ø 8 m. Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 48 sectors with 496 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>Dimensions (HxWxD): 94 x 94 x 72 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 23 mm</p> <p>    </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 72 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 23 mm</p> <p>    </p>


















	<b>Busch-Presence detector Compact, e-contact</b>	<b>Busch-Presence detector Universal, e-contact</b>
Article no./order no.	studio white matt 6817/62-24-500 / 2CKA006800A2737 aluminium silver 6817/62-183-500 / 2CKA006800A2771	studio white matt 6817/32-24-500 / 2CKA006800A2739 aluminium silver 6817/32-183-500 / 2CKA006800A2773
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With electronic switch contact for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 6,5 m, walking persons: up to Ø 8 m. Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 48 sectors with 496 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With electronic switch contact for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>    </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>    </p>








## Intelligent technology

in detail



	Busch-Presence detector Corridor, relay	Busch-Presence detector Universal BT, relay
Article no./order no.	studio white matt 6819/50-24-500 / 2CKA006800A2797 aluminium silver 6819/50-183-500 / 2CKA006800A2799	studio white matt 6819/31-24-500 / 2CKA006800A2741 aluminium silver 6819/31-183-500 / 2CKA006800A2775
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): rectangular: Frontal toward the detector at a max. of 14 m x 3 m (at a max. of 7 m x 3 m per side). Crosswise toward the detector at a max. of 24 m x 3 m (max. of 12 m x 3m per side).</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 92 sectors with 368 switching segments.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 76 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 27 mm</p> <p>     </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % to -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 72 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 23 mm</p> <p>      </p>



	<b>Busch-Presence detector Universal BT, e-contact</b>	<b>Busch-Presence detector Corridor BT, relay</b>
Article no./order no.	studio white matt 6817/33-24-500 / 2CKA006800A2743 aluminium silver 6817/33-183-500 / 2CKA006800A2777	studio white matt 6819/51-24-500 / 2CKA006800A2745 aluminium silver 6819/51-183-500 / 2CKA006800A2779
Description	<p>Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With electronic switch contact for LED operation.</p> <p>With selectable soft ON/OFF function.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With power relays for LED operation.</p> <p>Detection range (for installation height of 3 m): rectangular: Frontal toward the detector at a max. of 20 m x 3 m (at a max. of 10 m x 3 m per side). Crosswise toward the detector at a max. of 30 m x 3 m (max. of 15 m x 3m per side).</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 92 sectors with 368 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>     </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 76 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 27 mm</p> <p>     </p>

## Intelligent technology in detail



	<b>Busch-Presence detector Universal BT, e-contact with sealing ring</b>	<b>Busch-Presence detector Universal BT, DALI</b>
Article no./order no.	studio white matt 6817/93-204-500 / 2CKA006800A2803 aluminium silver 6817/93-183-500 / 2CKA006800A2805	studio white matt 6819/35-24-500 / 2CKA006800A2747 aluminium silver 6819/35-183-500 / 2CKA006800A2781
Description	<p>Master presence detector with mixed light measurement.</p> <p>For switching lighting systems that depend on brightness and movement.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With electronic switch contact for LED operation.</p> <p>With selectable soft ON/OFF function.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>	<p>Master presence detector with mixed light measurement.</p> <p>For regulating and switching of DALI operating devices that depend on brightness and movement.</p> <p>For DALI broadcast operation (central telegram).</p> <p>Supplies the required voltage for additional DALI operating units and controllers.</p> <p>Suitable for up to 45 DALI operating devices.</p> <p>With additional switching output for the activation of heating, air conditioning and ventilation or for switching additional loads (e.g. blackboard light).</p> <p>Configurable up to the complete deactivation of the DALI control gear.</p> <p>With Bluetooth interface for parameterization and operation.</p> <p>Adjustment of all setting options via smartphone or tablet.</p> <p>Light control via smartphone or tablet app.</p> <p>With selectable soft ON/OFF function.</p> <p>Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.</p> <p>Extension of the detection range by means of master/slave combination.</p> <p>For semi-automatic, comfort and fully automatic operation.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible.</p> <p>With time-controlled basic illumination function.</p> <p>With selectable burn-in function for fluorescent lamps.</p> <p>With 2-step automatic switch-off (according to EnEV / EN 15232).</p> <p>With time-controlled night-light function.</p> <p>With selectable presence simulation when no present.</p> <p>With integrated storage of ON period (energy monitor).</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With teach-in function of the brightness switching threshold.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 72 sectors with 640 switching segments.</p> <p>Individual deactivation and adjustment of sensitivity of individual sensors.</p> <p>Switch-off delay: approx. 1 min - 30 min adjustable.</p> <p>With selectable dynamic switch-off delay.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x Normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 59 mm</p> <p>Mounting depth: 36 mm</p> <p>Visible height: 23 mm</p> <p>     </p>	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Outputs: 1x DALI &amp; 1x normally open/closed contact (adjustable), potential-bound</p> <p>Detection angle: 360 °</p> <p>Brightness limit value: 5 Lux - 2.000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>94 x 94 x 83 mm</p> <p>Mounting depth: 60 mm</p> <p>Visible height: 23 mm</p> <p> <b>DALI</b>       </p>



#### Busch-Presence detector Corridor BT, DALI

Article no./order no.	studio white matt 6819/55-24-500 / 2CKA006800A2749 aluminium silver 6819/55-183-500 / 2CKA006800A2783
Description	<p>Master presence detector with mixed light measurement. For regulating and switching of DALI operating devices that depend on brightness and movement. For DALI broadcast operation (central telegram). Supplies the required voltage for additional DALI operating units and controllers. Suitable for up to 45 DALI operating devices. With additional switching output for the activation of heating, air conditioning and ventilation or for switching additional loads (e.g. blackboard light). Configurable up to the complete deactivation of the DALI control gear. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With selectable soft ON/OFF function. Detection range (for installation height of 3 m): rectangular: Frontal toward the detector at a max. of 20 m x 3 m (at a max. of 10 m x 3 m per side). Crosswise toward the detector at a max. of 30 m x 3 m (max. of 15 m x 3m per side). Extension of the detection range by means of master/slave combination. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (4 hours), activation via intelligent extension unit input possible. With time-controlled basic illumination function. With selectable burn-in function for fluorescent lamps. With 2-step automatic switch-off (according to EnEV / EN 15232). With time-controlled night-light function. With selectable presence simulation when no present. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 92 sectors with 368 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors. Switch-off delay: approx. 1 min - 30 min adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Outputs: 1x DALI &amp; 1x normally open/closed contact (adjustable), potential-bound Detection angle: 360 ° Brightness limit value: 5 Lux - 2.000 Lux Mounting height: 2 m - 4 m 94 x 94 x 87 mm Mounting depth: 60 mm Visible height: 27 mm</p>

## Intelligent technology

in detail



	<b>Busch-Presence detector Compact, slave</b>	<b>Busch-Presence detector Universal, slave</b>
Article no./order no.	studio white matt 6819/68-24-500 / 2CKA006800A2751 aluminium silver 6819/68-183-500 / 2CKA006800A2785	studio white matt 6819/38-24-500 / 2CKA006800A2753 aluminium silver 6819/38-183-500 / 2CKA006800A2787
Description	Slave presence detector for extension of the detection range by means of master presence detectors. Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 6,5 m, walking persons: up to Ø 8 m. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 48 sectors with 496 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.	Slave presence detector for extension of the detection range by means of master presence detectors. Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 72 sectors with 640 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.
Technical data	Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 72 mm Mounting depth: 49 mm Visible height: 23 mm	Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 72 mm Mounting depth: 49 mm Visible height: 23 mm



	<b>Busch-Presence detector Corridor, slave</b>	<b>Busch-Presence detector Universal, slave, DALI</b>
Article no./order no.	studio white matt 6819/58-24-500 / 2CKA006800A2755 aluminium silver 6819/58-183-500 / 2CKA006800A2789	studio white matt 6819/39-24-500 / 2CKA006800A2759 aluminium silver 6819/39-183-500 / 2CKA006800A2793
Description	Slave presence detector for extension of the detection range by means of master presence detectors. Detection range (for installation height of 3 m): Frontal toward the detector at a max. of 14 m x 3 m (at a max. of 7 m x 3 m per side). Crosswise toward the detector at a max. of 24 m x 3 m (max. of 12 m x 3 m per side). Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 92 sectors with 368 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.	DALI slave presence detector for extension of the detection range by means of DALI master presence detectors. For the supply of operating voltage via the DALI master. The communication with the DALI master is carried out via the DALI interface. Detection range (for installation height of 3 m): circular: Seated persons: max Ø 10 m, walking persons: max Ø 12 m. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 72 sectors with 640 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm.
Technical data	Rated voltage: 110 V~ - 230 V~, +10 % bis -10 % Rated frequency: 50 / 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 76 mm Mounting depth: 49 mm Visible height: 27 mm	Rated voltage: 9,5 ... 22,5 V= Detection angle: 360 ° Mounting height: 2 m - 4 m Dimensions (HxWxD): 94 x 94 x 72 mm Mounting depth: 49 mm Visible height: 23 mm

**DALI**





<b>Busch-Presence detector Corridor, slave, DALI</b>	
Article no./order no.	studio white matt 6819/59-24-500 / 2CKA006800A2761 aluminium silver 6819/59-183-500 / 2CKA006800A2795
Description	<p>DALI slave presence detector for extension of the detection range by means of DALI master presence detectors.</p> <p>For the supply of operating voltage via the DALI master.</p> <p>The communication with the DALI master is carried out via the DALI interface.</p> <p>Detection range (for installation height of 3 m):</p> <p>Frontal toward the detector at a max. of 14 m x 3 m (at a max. of 7 m x 3 m per side). Crosswise toward the detector at a max. of 24 m x 3 m (max. of 12 m x 3m per side).</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Twist protection via additional quick tensioning.</p> <p>Surveillance density: 92 sectors with 368 switching segments.</p> <p>Suitable for false ceilings with a board thickness from 9 to 25 mm.</p> <p>Hole size: Ø 68 mm.</p>
Technical data	<p>Rated voltage: 9,5 ... 22,5 V=</p> <p>Detection angle: 360 °</p> <p>Mounting height: 2 m - 4 m</p> <p>Dimensions (HxWxD): 94 x 94 x 76 mm</p> <p>Mounting depth: 49 mm</p> <p>Visible height: 27 mm</p> <p><b>DALI</b></p>



<b>Busch extension unit coupling</b>	
Article no./order no.	6494-500 / 2CKA006499A0002
Description	<p>For transmitting different control commands via a single conductor wire.</p> <p>For devices with intelligent extension input.</p> <p>For operation via conventional push-buttons 2020 US and 2021/6 U.</p> <p>For operation via conventional 2gang push-buttons 2020 US-205 and 2021/6/6 U.</p> <p>For universal attachment or installation.</p> <p>For installation in (deep) flush-mounted boxes to German Standard DIN 4973, Part 1.</p> <p>Including compact connecting terminal for cable connection.</p> <p>Cable length: approx. 80 mm.</p>
Technical data	<p>Rated voltage: 127 V~ - 230 V~, +10 % bis -10 %</p> <p>Rated frequency: 50 / 60 Hz</p> <p>Dimensions (HxWxD): 33 x 45 x 8,5 mm</p>

## Intelligent technology

in detail



	Busch-Watchdog Presence tech BasicLINE mini	Busch-Watchdog Presence tech BasicLINE
Article no./order no.	6811 EB-500 / 2CKA006800A2517	6814 U-500 / 2CKA006800A2518
Description	<p>For switching lighting systems that depend on brightness and movement.</p> <p>Low mounting height due to separate sensor/actuator concept.</p> <p>Continuously variable detection sensitivity.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With detection display in test mode.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Surveillance density: 19 sectors with 76 switching segments.</p> <p>Switch-off delay: approx. 1 sec - 15 min or short-time pulse adjustable.</p>	<p>For switching lighting systems that depend on brightness and movement.</p> <p>For semiautomatic and fully automatic operation.</p> <p>Additional activation/deactivation possibility through push-button input.</p> <p>Adaptation of the detection range possible using the included masking elements.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With detection display in test mode.</p> <p>Mounting possibility in combination with built-in installation boxes and device sockets.</p> <p>Ceiling installation using integrated spring bracket.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 32 sectors with 128 switching segments.</p> <p>Switch-off delay: approx. 5 sec - 30 min or short-time pulse adjustable.</p>
Technical data	<p>Rated voltage: 230 V~, +10 % / -10 %</p> <p>Rated frequency: 50 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Detection angle: 360 °</p> <p>Detection range (installation height 3m, up to 6m in diameter).</p> <p>Brightness limit value: 10 Lux - 1000 Lux , Daytime operation</p> <p>Mounting height: 2 m - 5 m</p> <p>Mounting depth: 77 mm</p> <p></p>	<p>Rated voltage: 230 V~, +10 % / -10 %</p> <p>Rated frequency: 50 Hz/60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Dimensions (HxWxD): 111 mm x 111 mm x 59 mm</p> <p>Detection angle: 360 °</p> <p>Detection range (for installation height of 2.5 m), circular, up to 7 m in diameter.</p> <p>Brightness limit value: 10 Lux - 2000 Lux</p> <p>Mounting height: 2 m - 4 m</p> <p>Mounting depth: 41 mm</p> <p></p>



	<b>Busch-Watchdog Presence tech BasicLINE Corridor</b>	<b>Protective basket</b>
Article no./order no.	6818 U-500 / 2CKA006800A2519	6898 / 2CKA006899A2304
Description	<p>For switching lighting systems that depend on brightness and movement.</p> <p>Additional activation/deactivation possibility through pushbutton input.</p> <p>Adaptation of the detection range possible using the included masking elements.</p> <p>With brightness-independent test mode for evaluating the detection zone.</p> <p>With detection display in test mode.</p> <p>With automatic movement detection.</p> <p>With automatic sensitivity adaptation.</p> <p>Mounting possibility in combination with built-in installation boxes and device sockets.</p> <p>Ceiling installation using included dust protection socket.</p> <p>Adjustment elements accessible on the front side.</p> <p>Surveillance density: 215 sectors with 860 switching segments.</p> <p>Switch-off delay: approx. 10 sec - 30 min or short-time pulse adjustable.</p> <p>Remote control possible via IR service remote control 6843.</p> <p>Use outdoors possible due to combination with surface-mounted housing 6888.</p>	<p>For ceiling presence detectors.</p> <p>For Busch-Watchdog Presence tech (6813-101-500), For Busch-Watchdog Presence tech DualLINE 6813/11-xxx-500.</p> <p>For Busch-Watchdog Presence tech BasicLINE 6814 U-500.</p> <p>For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U-500.</p> <p>For all Busch-Smoke alarm detectors ProfessionalLINE.</p> <p>For all Busch-Heat alarm detectors ProfessionalLINE.</p> <p>Busch-Smoke alarm detector 6831-84 and 6832-84.</p> <p>Also applicable in connection with surface-mounted housings 6885-xxx-500 and 6888.</p> <p>For Busch-Presence detector mini KNX 6131/20-xxx-500 and 6131/21-xxx-500.</p> <p>For Busch-Presence detector KNX 6131/30-xxx-500 and 6131/31-xxx-500.</p> <p>Busch-Watchdog Sky KNX 6131/40-24-500.</p> <p>Dimensions: (LxWxD): 180 mm x 180 mm x 98 mm</p>
Technical data	<p>Rated voltage: 230 V~, +10 % / -10 %</p> <p>Rated frequency: 50 Hz/60 Hz</p> <p>Outputs: 1x Normally open contact, potential-bound</p> <p>Dimensions (HxWxD): 110 mm x 110 mm x 70 mm</p> <p>Detection angle: 360 °</p> <p>Detection range (for installation height of 2.5 m, circular, up to 24 m in diameter).</p> <p>Brightness limit value: 10 Lux - 2000 Lux</p> <p>Mounting height: 2 m - 3 m</p> <p>Mounting depth: 48 mm</p> <p></p>	



	<b>Surface-mounting box</b>	<b>IR service remote control</b>
Article no./order no.	6888 / 2CKA006899A2305	6843 / 2CKA006800A2511
Description	<p>For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U-500.</p> <p>For surface mounting and increase of the protection type.</p> <p>Protection class (Device): IP 54</p> <p>Temperature range (Device): -20 °C to 45 °C</p> <p>Dimensions: (LxWxD): 106 mm x 106 mm x 26 mm</p>	<p>For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U-500.</p> <p>The following functions/settings can be implemented.</p> <p>Continuous light on/off (8 h).</p> <p>Setting of the brightness limit value.</p> <p>Setting of the current ambient light value as the brightness limit value.</p> <p>Setting of switch-off delay or short-time pulse.</p> <p>Saving and duplication of the saved values.</p> <p>Activate test mode.</p> <p>Reset to factory default settings.</p> <p>Activation/deactivation of the button lock.</p> <p>Power supply: lithium button cell battery Type CR2032.</p> <p>Range: frontal 3 m</p> <p>Rated voltage: 3 V</p> <p>Dimensions: (LxWxD): 106 mm x 50 mm x 8 mm</p>

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	Busch-Watchdog Presence tech	Busch-Watchdog Presence tech DualLINE
Article no./order no.	studio white matt 6813-101-500 / 2CKA006800A2178 aluminium silver 6813-183-101-500 / 2CKA006800A2324	studio white matt 6813/11-24-500 / 2CKA006800A2350 aluminium silver 6813/11-183-500 / 2CKA006800A2352
Description	For switching and dimming lighting systems that depend on brightness and movement. For constant light regulation in combination with Dimmer insert 6524 U-500, 6526 U-500, 6593 U-500 or 6550 U-101-500. For heating/air-conditioning/ventilation adjustment in combination with serial insert 6402 U. For relay inserts 6401 U-102, 6402 U and 6812 U-101. For MOS-Fet insert 6804 U-101. For extension insert 6805 U. Remote control possible via IR mobile remote control 6010-25-500. Intelligent turn-on delay. Surveillance density: 72 sectors with 640 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 adjustable.	For switching and dimming lighting systems that depend on brightness and movement. For constant light regulation in combination with Dimmer insert 6524 U-500, 6526 U-500, 6593 U-500 or 6550 U-101-500. For the control of 2 independent light strips in combination with 2gang 1way unit 6402 U. For semiautomatic and fully automatic operation. For relay inserts 6401 U-102, 6402 U and 6812 U-101. For MOS-Fet insert 6804 U-101. For extension insert 6805 U. Remote control possible via IR mobile remote control 6010-25-500. Switch-off delay: approx. 1 sec - 20 min or short-time pulse adjustable.
Technical data	Dimensions (HxWxD): 110 mm x 110 x 51 mm Detection angle: 360 ° Detection range (for installation height 2.5 m) circular, 8 m diameter. Brightness limit value: 5 Lux - 1000 Lux Mounting height: 2 m - 8 m	Intelligent turn-on delay. Surveillance density: 72 sectors with 640 switching segments. Dimensions (HxWxD): 110 mm x 110 mm x 51 mm Detection angle: 360 ° Detection range (for installation height 2.5 m) circular, 8 m diameter. Brightness limit value: 5 Lux - 1000 Lux Mounting height: 2 m - 8 m



	Surface-mounting box	IR remote control
Article no./order no.	studio white matt 6885-500 / 2CKA006899A0282 aluminium silver 6885-183-500 / 2CKA006899A0298	6010-25-500 / 2CKA006020A1133
Description	For the installation of a flush-mounted insert in combination with the Busch-Watchdog Presence tech 6813/(11)-xx-(101) or the Busch-Watchdog Presence tech KNX 6131/10-xxx or Busch-Watchdog Presence tech DualLINE KNX 6131/11-xxx. Protection class (Device): IP 20 Dimensions: (LxWxD): 110 mm x 110 mm x 39 mm	Battery-supplied infrared remote control. For IR receiver (60xx). For KNX presence detectors and KNX sensors with infrared interface. For switching/dimming up to 10 loads in 2 groups (1-5 / 6-10). Programming and selection of 2 MEMO memories possible per group. Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery. Range: 15 m Rated voltage: 6 V-

**KNX****KNX**

	<b>Busch-Presence detector mini KNX</b>	<b>Busch-Presence detector mini premium KNX</b>
Article no./order no.	alpine white 6131/20-24-500 / 2CKA006132A0342 aluminium silver 6131/20-183-500 / 2CKA006132A0343	alpine white 6131/21-24-500 / 2CKA006132A0344 aluminium silver 6131/21-183-500 / 2CKA006132A0345
Description	With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area. With integrated KNX bus coupler.	With 4 channels. For dimming/brightness to a defined value. HVAC function for controlling heating and/or cooling systems and ventilation systems. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light controller with up to two independent channels. Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room. Integrated object room temperature controller. 24 freely programmable IR channels (blue and/or white) Incl. 5 logic channels (logic gates, gates, delay and staircase lighting) Evaluation via internal brightness sensor. Weighting of up to 2 external brightness values and the internal brightness sensor possible. The programming button can be activated with the IR transmitter 6010-25-500. With integrated KNX bus coupler.
Technical data	KNX bus connection terminal ETS4 native application Dimensions (HxWxD): 80mm x 80 mm x 45 mm Detection range (for mounting height 2.5 m, 3 m and 4 m) circular. Seated persons Ø: 5 m, 6.5 m and 9 m. Walking persons Ø: 6.5 m, 8 m and 10.5 m. Brightness limit value: 1 Lux - 1000 Lux. Mounting depth: 29 mm Visible height 16 mm.	KNX bus connection terminal ETS4 native application Dimensions (HxWxD): 80mm x 80 mm x 45 mm Detection range (for mounting height 2.5 m, 3 m and 4 m) circular. Seated persons Ø: 5 m, 6.5 m and 9 m. Walking persons Ø: 6.5 m, 8 m and 10.5 m. Brightness limit value: 1 Lux - 1000 Lux. Mounting depth: 29 mm Visible height 16 mm.



	<b>Surface-mounting box</b>	<b>IR remote control</b>
Article no./order no.	alpine white 6131/29-24-500 / 2CKA006132A0351 aluminium silver 6131/29-183-500 / 2CKA006132A0352	6010-25-500 / 2CKA006020A1133
Description	For Busch-Presence detector mini KNX For installing a Busch-Presence detector mini KNX 6131/20-xxx-500 or a Busch-Presence detector mini premium KNX 6131/21-xxx-500. Protection class (Device): IP 20 Dimensions (HxWxD): 80 mm x 80 mm x 35 mm	Battery-supplied infrared remote control. For IR receiver (60xx). For KNX presence detectors and KNX sensors with infrared interface. For switching/dimming up to 10 loads in 2 groups (1-5 / 6-10). Programming and selection of 2 MEMO memories possible per group. Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery. Range: 15 m Rated voltage: 6 V-

## Intelligent technology

in detail



**KNX**



**KNX**

	<b>Busch-Presence detector KNX</b>	<b>Busch-Presence detector premium KNX</b>
Article no./order no.	alpine white 6131/30-24-500 / 2CKA006132A0346 aluminium silver 6131/30-183-500 / 2CKA006132A0347	alpine white 6131/31-24-500 aluminium silver 6131/31-183-500
Description	<p>With 2 channels.</p> <p>Targeted for connection and disconnection of lights bands depending on the room brightness.</p> <p>Regulation in response to the movement possible.</p> <p>Using the device as presence and/or movement detectors.</p> <p>Detectors application with 2 power off stages.</p> <p>Detectors application with integrated monitoring function.</p> <p>Constant light switch with up to two independent channels.</p> <p>Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.</p> <p>With integrated KNX bus coupler.</p>	<p>With 4 channels.</p> <p>For dimming/brightness to a defined value.</p> <p>HVAC function for controlling heating and/or cooling systems ventilation systems.</p> <p>Detectors application with 2 power off stages.</p> <p>Detectors application with integrated monitoring function.</p> <p>Constant light controller with up to two independent channels.</p> <p>Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room.</p> <p>Integrated object room temperature controller.</p> <p>24 freely programmable IR channels (blue and/or white)</p> <p>Incl. 5 logic channels (logic gates, gates, delay and staircase lighting)</p> <p>Evaluation via internal brightness sensor.</p> <p>Weighting of up to 2 external brightness values and the internal brightness sensor possible.</p> <p>The programming button can be activated with the IR transmitter 6010-25-500.</p> <p>With integrated KNX bus coupler.</p>
Technical data	<p>KNX bus connection terminal</p> <p>ETS4 native application</p> <p>Dimensions (HxWxD): 91 mm x 91 mm x 45 mm</p> <p>Detection range (for mounting height 2.5 m, 3 m and 4 m) circular.</p> <p>Seated persons Ø: 8 m, 10 m and 14 m.</p> <p>Walking persons Ø: 10 m, 12 m and 16 m.</p> <p>Brightness limit value: 1 Lux - 1000 Lux.</p> <p>Mounting depth: 22 mm</p> <p>Visible height 23 mm.</p>	<p>KNX bus connection terminal</p> <p>ETS4 native application</p> <p>Dimensions (HxWxD): 91 mm x 91 mm x 45 mm</p> <p>Detection range (for mounting height 2.5 m, 3 m and 4 m) circular</p> <p>Seated persons Ø: 8 m, 10 m and 14 m.</p> <p>Walking persons Ø: 10 m, 12 m and 16 m.</p> <p>Brightness limit value: 1 Lux - 1000 Lux.</p> <p>Mounting depth: 22 mm</p> <p>Visible height 23 mm.</p>





KNX



KNX

	<b>Busch-Presence detector Corridor KNX</b>	<b>Busch-Presence detector Corridor premium KNX</b>
Article no./order no.	alpine white 6131/50-24-500 / 2CKA006132A0399 aluminium silver 6131/50-183-500 / 2CKA006132A0400	alpine white 6131/51-24-500 / 2CKA006132A0413 aluminium silver 6131/51-183-500 / 2CKA006132A0414
Description	<p>With 2 channels.</p> <p>Targeted for connection and disconnection of lights bands depending on the room brightness.</p> <p>Regulation in response to the movement possible.</p> <p>Using the device as presence and/or movement detectors.</p> <p>Detectors application with 2 power off stages.</p> <p>Detectors application with integrated monitoring function.</p> <p>Constant light switch with up to two independent channels.</p> <p>Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.</p> <p>With integrated KNX bus coupler.</p>	<p>With 4 channels.</p> <p>For dimming/brightness of the rules to a defined value in a designated collection area.</p> <p>HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area.</p> <p>Detectors application with 2 power off stages.</p> <p>Detectors application with integrated monitoring function. Constant light controller with up to two independent channels.</p> <p>Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room.</p> <p>Integrated object room temperature controller.</p> <p>10 freely programmable IR channels (white).</p> <p>Incl. 5 logic channels (logic gates, gates, delay and staircase lighting).</p> <p>Weighting of up to 2 external brightness values and the internal brightness sensor possible.</p> <p>With integrated KNX bus coupler.</p> <p>Connections: KNX-line: Bus connection terminal.</p>
Technical data	<p>Connections: KNX-line: Bus connection terminal.</p> <p>Brightness limit value: 1 Lux – 1000 Lux.</p> <p>Mounting height: 2 m – 4 m.</p> <p>Protection class (Device): IP 20.</p> <p>Temperature range (Device): – 5 °C to 45 °C.</p> <p>Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm.</p> <p>Mounting depth: 22 mm.</p>	<p>Brightness limit value: 1 Lux – 1000 Lux.</p> <p>Mounting height: 2 m – 4 m.</p> <p>Protection class (Device): IP 20.</p> <p>Temperature range (Device): – 5 °C to 45 °C.</p> <p>Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm.</p> <p>Mounting depth: 22 mm.</p>

## Intelligent technology

in detail



**KNX**



	<b>Busch-Watchdog Sky KNX</b>	<b>Surface-mounting box</b>
Article no./order no.	alpine white 6131/40-24-500 / 2CKA006132A0350	alpine white 6131/39-24-500 / 2CKA006132A0353 aluminium silver 6131/39-183-500 / 2CKA006132A0354
Description	<p>With 2 channels.</p> <p>Targeted for connection and disconnection of lights bands depending on the room brightness.</p> <p>Regulation in response to the movement possible.</p> <p>Use of the device as a movement detector.</p> <p>Detectors application with 2 power off stages.</p> <p>Detectors application with integrated monitoring function.</p> <p>Constant light switch with up to two independent channels.</p> <p>Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.</p> <p>With integrated KNX bus coupler.</p> <p>The programming button can be activated with the IR transmitter 6010-25-500.</p>	<p>For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector KNX Premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500), a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500) on a VDE flush-mounted box.</p> <p>Protection class (Device): IP 20</p> <p>Dimensions: (L x W x D): 91 mm x 91 mm x 33 mm</p>
Technical data	<p>KNX bus connection terminal</p> <p>ETS4 native application.</p> <p>Dimensions (HxWxD): 91 mm x 91 mm x 45 mm</p> <p>Detection range (for mounting height 6 m and 12 m) circular.</p> <p>Walking persons Ø: 18 m, 24 m.</p> <p>Brightness limit value: 1 Lux - 1000 Lux.</p> <p>Mounting depth: 22 mm</p> <p>Visible height 23 mm.</p>	



	<b>Intermediate ring for VDE flush-mounted box</b>	<b>IR remote control</b>
Article no.	alpine white 6131/38-24-500 / 2CKA006132A0403 aluminium silver 6131/38-183-500 / 2CKA006132A0404	6010-25-500 / 2CKA006020A1133
Description	<p>For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector KNX Premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500), a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500) on a VDE flush-mounted box.</p> <p>Protection class (Device): IP 20</p> <p>Dimensions: (L x W x D): 91 mm x 91 mm x 22 mm</p>	<p>Battery-supplied infrared remote control.</p> <p>For IR receiver (60xx).</p> <p>For KNX presence detectors and KNX sensors with infrared interface.</p> <p>For switching/dimming up to 10 loads in 2 groups (1-5 / 6-10).</p> <p>Programming and selection of 2 MEMO memories possible per group.</p> <p>Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery.</p> <p>Range: 15 m</p> <p>Rated voltage: 6 V-</p>



—  
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of the ABB Group

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