VER:1.3 | 20.06.2017

Operating Instructions

ABB-Welcome

Mini video outdoor station M2131xPx-A M2136xPx-A



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1 Safety



Warning

Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 110-240 V supply system to be performed only by specialist staff!

2 Intended use

The outdoor station is an integral part of the ABB-Welcome door communication system and operates exclusively with components from this system.

3 Environment



Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with household waste.

 The device contains valuable raw materials that can be recycled. Therefore, dispose of the device at the appropriate collecting facility.

3.1 ABB devices

All packaging materials and devices from ABB bear the markings and test seals for proper disposal. Always dispose of the packing materials and electric devices and their components via an authorized collection facility or disposal company.

ABB products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU-Directive 2002/96/EG WEEE and 2002/95/EG RoHS)

(EU-REACH ordinance and law for the implementation of the ordinance (EG) No.1907/2006)

3.2 Front overview

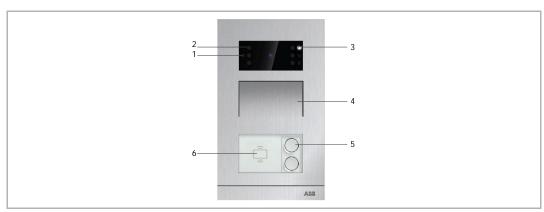


Fig. 1

No	Function
1	Light sensor
2	Infrared LED
3	Indicator LED (ring, call and door open)
4	Speaker and microphone integration
5	Pushbutton
6	Nameplate

Tab.1

3.3 Terminal description

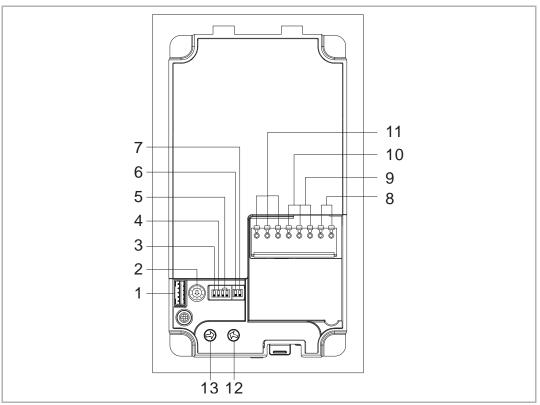


Fig. 2

No	Function
1	Connector for device software update
2	Rotary switch to set the address of outdoor station (1-9)
3	Set feedback tone of pushbutton ON/OFF
4	Set general call to all indoor stations in one family: ON/OFF If GC=ON, press button 1/button 2, all IS ring
5	Configuration function of 1st/2nd round pushbutton 5A mini video outdoor station with one pushbutton 3 -> OFF; 4 -> OFF = Call IS 001 3 -> ON; 4 -> OFF = Switch on light 3 -> OFF; 4 -> ON = Call guard unit 3 -> ON; 4 -> ON = Call IS 001 5B mini video outdoor station with two pushbuttons 3 -> OFF; 4 -> OFF = Call IS 001/002 3 -> ON; 4 -> OFF = Switch on light/call IS 001 3 -> OFF; 4 -> ON = Call guard unit/call IS 001 3 -> ON; 4 -> ON = Call IS 001/call IS 001

6	Set the video mode PAL/NTSC OFF = PAL video mode ON = NTSC video mode
7	Set default lock OFF = set (Lock-GND) as default lock ON = set (COM-NC-NO) as default lock *Default lock is controlled by "unlock" button on IS
8	Plug-in clamps (a,b) for bus connection
9	Plug-in clamps (Exit-GND) for exit button
10	Plug-in clamps (Lock-GND) for door opener
11	Plug-in clamps (COM-NC-NO) for floating output, door opener
12	Rotary switch to adjust default door lock release time, 1-10s
13	Rotary switch to adjust loudspeaker volume

Tab.2

3.4 Lock type and connection

Lock type	Operation type	Voltage	Wiring type
Electrical strike lock, 12 V	Power on to open	12 VDC/AC	Type A Type B
Electrical strike lock, 24 V	Power on to open	24 VDC/AC	Туре В
Electrical rim lock, 12 V	Power on to open	12 VDC	Type A Type B
Electrical mortise lock	Power off to open	12 VDC	Type C
Magnetic lock	Power off to open	12/24 V DC	Type C

Tab.3

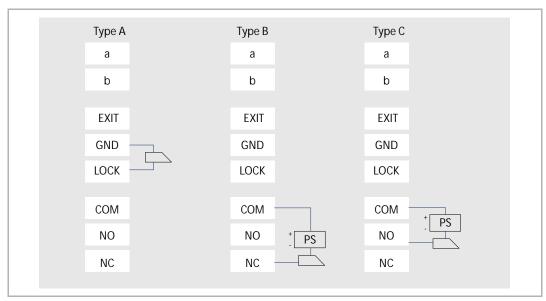


Fig. 3

4 Technical data

Designation	Value
Operating temperature	-40 °C - +70 °C
Protection	IP 54
Power supply, door opener (Lock-GND)	18 V 4 A impulsive, 250 mA holding
Floating supply, door opener (COM-NC-NO)	30 V DC/AC 1A
Single-wire clamps	2 x 0.28 mm ² - 2 x 0.75 mm ²
Fine-wire clamps	2 x 0.28 mm ² - 2 x 0.75 mm ²
Bus voltage	20-30 V DC

Tab.4

5 Mounting/Installation



Warning

Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 110-240 V supply system to be performed only by specialist staff!

5.1 Requirement for the electrician



Warning

Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
- 1. Disconnect
- 2. Secure against being re-connected
- 3. Ensure there is no voltage
- 4. Connect to earth and short-circuit
- 5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the type of supply network (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective grounding, necessary additional measures, etc.).

5.2 Mounting

5.2.1 Preparation

Use gloves to protect yourself from being cut.

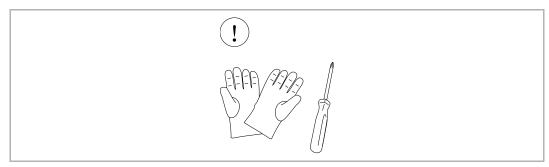


Fig. 4

5.2.2 Surface mounting

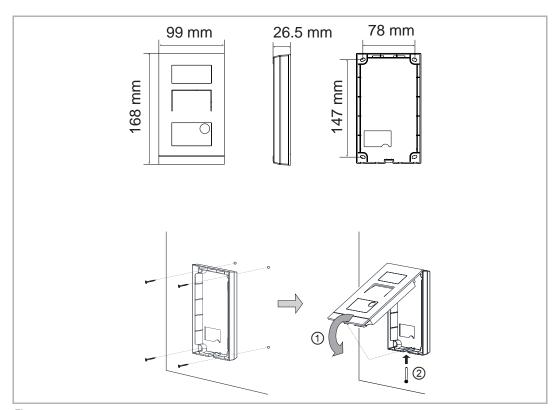


Fig. 5

5.2.3 Flush mounting

Product dimension

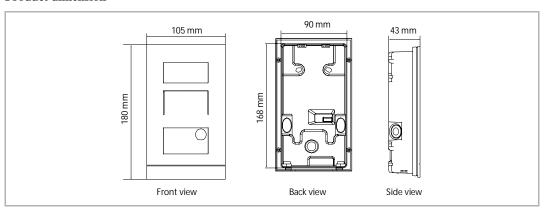


Fig. 6

Mounting without pre-installation box

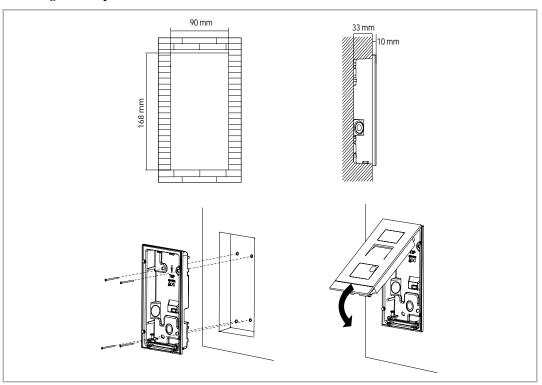


Fig. 7

Mounting with pre-installation box

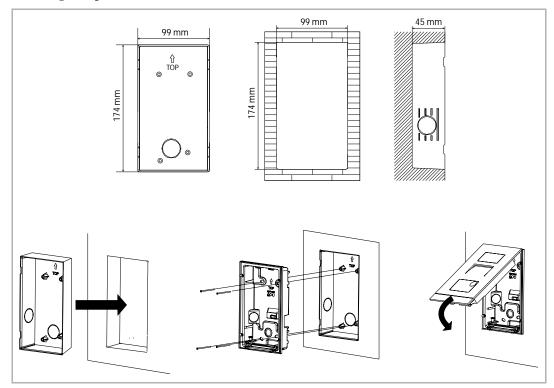


Fig. 8



Precautions for installation

When opening a square groove for the lower cover of the equipment, you must control the embedded depth, ensuring the outer edge of the lower cover can be fully attached to the wall, but should not leave a large gap between the exposed parts of the face shell and the wall after the installation of the equipment;

Do not install in raining, humid or dusty environments, and not near objects of high temperature or strong corrosion.

5.2.4 Cavity wall installation

Product dimension

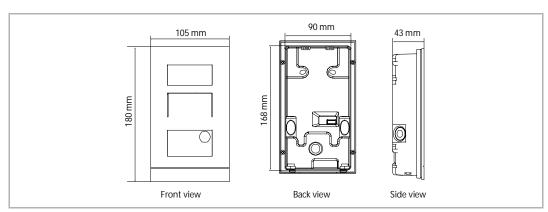


Fig. 9

Installation dimension

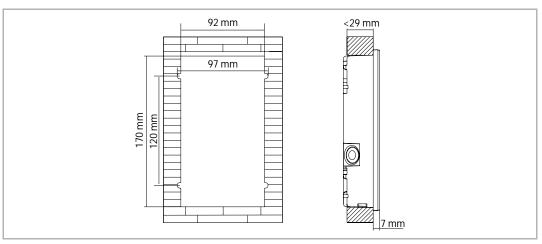


Fig. 10

Cavity wall installation

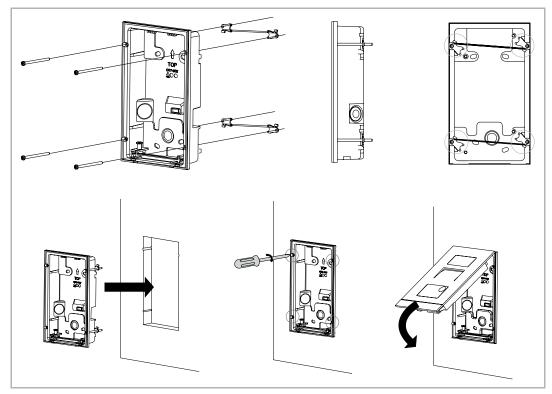


Fig. 11

5.2.5 Dismantling

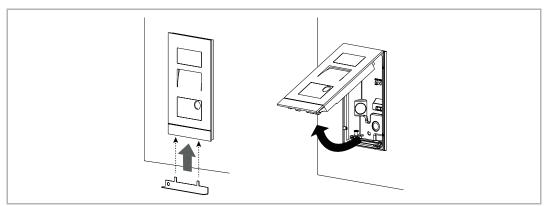


Fig. 12

5.2.6 Replace the nameplate

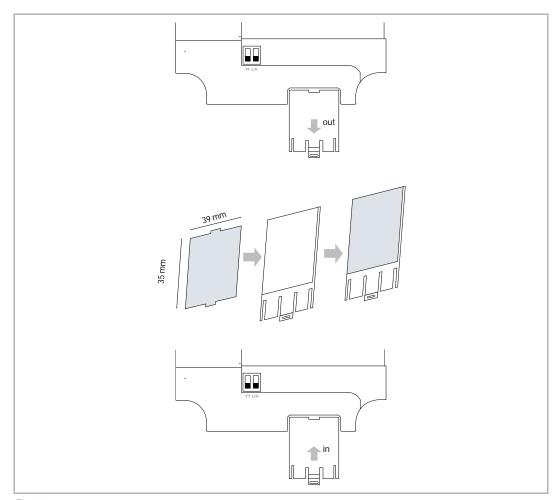


Fig. 13

5.2.7 Installation situations



Note

The following installation situations must be avoided without fail to ensure picture quality.

- Direct light
- Direct sunlight
- Extremely bright picture background
- Highly reflective walls on the opposite side of the door station
- Lamps or direct light sources

6 Commissioning

6.1 Configure functions of the 1st/2nd pushbutton

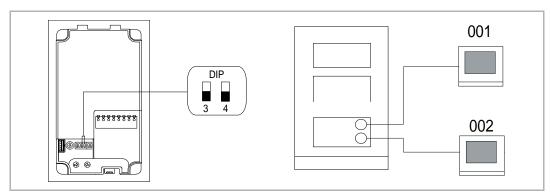


Fig. 14

No	Function
1	3-> OFF, 4-> OFF
2	Call apartment 001
3	Call apartment 002

Tab.5

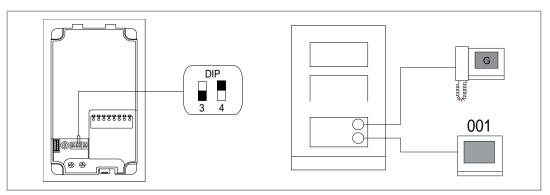


Fig. 15:

No	Function
1	3-> OFF, 4-> ON
2	Call guard unit
3	Call apartment 001

Tab.6

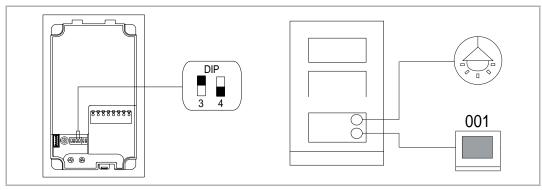


Fig. 16

No	Function
1	3-> ON, 4-> OFF
2	Switch on light
3	Call apartment 001

Tab.7

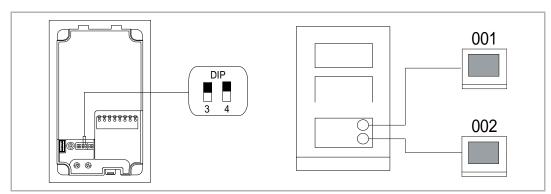


Fig. 17

No	Function
1	3-> ON, 4-> ON
2	Call apartment 001
3	Call apartment 002

Tab.8

6.2 Setting general call function

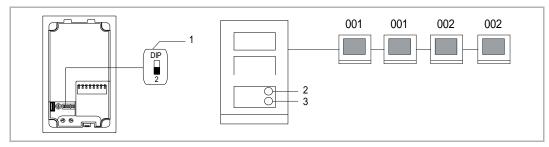


Fig. 18

No	Function
1	2-> OFF
2	Call apartment 001, both 001 indoor stations ring
3	Call apartment 002, both 002 indoor stations ring

Tab.9

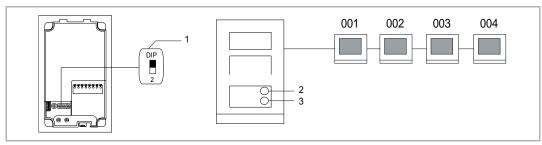


Fig. 19

No	Function
1	2-> ON
2	Call apartment 001, all 4 indoor stations (different address) ring
3	Call apartment 002, all 4 indoor stations (different address) ring

Tab.10

* If the "call forward function" has been set at the indoor station, this function will not work well.

For example, 001IS has set call forward to 002 IS, when press 1st round pushbutton on OS to call 001 IS, if 001 IS doesn't answer the call in 5s, it will not transfer to 002 IS.

7 Operation

7.1 Manage ID cards by mini outdoor station

Programming

Function	Command	Indicated color of door open
Create admin card	Swipe card 1x	Green
Enter settings	Swipe admin card 1x	Orange

Tab.11

The system will take the first card swiped after powering up the system within 60s to be the admin card.

After entering settings, following functionalities can be implemented:

Function	Command	Indicated color of door open
Enroll user	Swipe admin card 1x	Orange flash 1x
	Swipe user card 1x	Green
Delete user	Swipe admin card 2x	Orange flash 2x
	Swipe user card 1x	Green
Enroll new admin	Swipe admin card 3x	Orange flash 3x
	Swipe new admin card 1x	Green
Delete admin	Swipe admin card 4x	Orange flash 4x
	Swipe other admin card 1x	Green
Delete all users	Swipe admin card 5x	Orange flash quickly
	Swipe admin card 1x	Green

Tab.12

During setting, please swipe the same admin card.

Function	Command	Indicated color of door open
Exit settings	Swipe admin card 1x or no cards swiped within 15 seconds	

Tab.13

Open a door

Function	Command	Indicated color of door open
Open a door	Swipe the enrolled keycard	Green

Tab.14

Reset to factory default

Function	Command	Indicated color of door open
	Press and hold the 1st button for 3 s to enter configuration mode.	3 LED: green cycle flash
Reset to factory default	Press and hold the 1st button for 10 s to reset to factory default.	3 LED: OFF
	Reboot the device	Door open LED: red, green, orange cycle flash

Tab.15

Technical data of ID card

Work frequency	Standard	Support ID card protocol
125KHz	ISO18000-2	EM4100, EM4205, EM4305, EM4450, TK4100, T5567/T5577

Tab.16

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