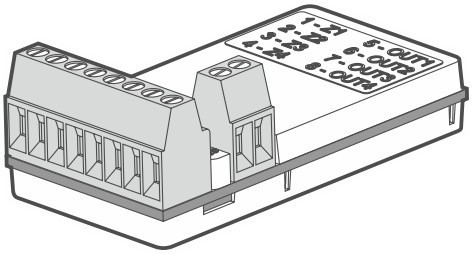
Mini Multi Extender

ACX-210

EN

Firmware version 1.02



CE

acx-210_BW_en 08/26

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IMPORTANT

The device should be installed by qualified personnel.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

Description of symbols on the device:

The device meets the requirements of the applicable EU directives.

The device must not be disposed of with other municipal waste. It should be disposed of in accordance with the existing rules for environment protection (the device was placed on the market after 13 August 2005).

The device is designed for indoor installation.

The device meets the technical regulations of the Eurasian Customs Union.

Direct current (DC).

SATEL aims to continually improve the quality of its products, which may result in changes in their technical specifications and software. Current information about the changes being introduced is available on our website.
Please visit us at:
https://support.satel.pl

Hereby, SATEL sp. z o.o. declares that the radio equipment type ACX-210 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.satel.pl/ce

Signs in this manual

Caution – information on the safety of users, devices, etc.

Note – suggestion or additional information.

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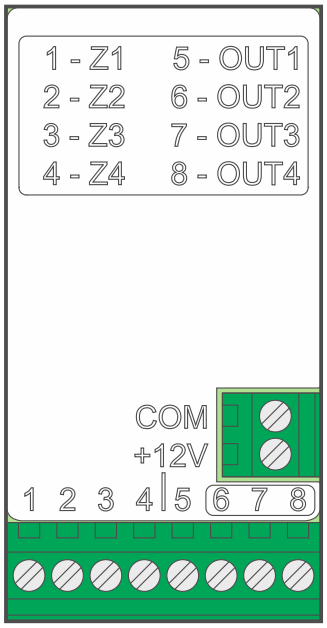
The ACX-210 expander (Mini Multi Extender) allows you to use wired detectors in a wireless system and to control wired devices. The manual applies to the expander installed in the BE WAVE system.

1. Features

- 4 programmable wired zones:
  - support for NO and NC type detectors,
  - support for Single EOL and Double EOL configuration.
- 4 programmable wired OC type outputs.
- Operation in the 868 MHz frequency band.
- AES encrypted two-way radio communication.
- Transmission channel diversity – 4 channels for automatic selection of the one that will enable transmission without interference with other signals.
- Remote settings programming.
- Remote firmware update.
- Powered by 4...24 VDC.
- Mini size for installation inside another device enclosure.

2. Description

1



Terminals

COM - common ground.
+12V - power input.
1...4 - zones Z1...Z4.

5...8 - outputs OUT1...OUT4. The outputs are OC type. When the output is turned off, it is disconnected from the common ground (high impedance). When the output is turned on, it is shorted to common ground (0 V).

Given the specific character of radio communication, it is not recommended that the expander be used in applications where quick switching of the output status is required.

3. Installation

Disconnect power before making any electrical connections.

To power the expander, use a 4...24 VDC power supply with current limitation up to 3 A.

Do not use the battery to power the expander.

3.1 Tips for installation

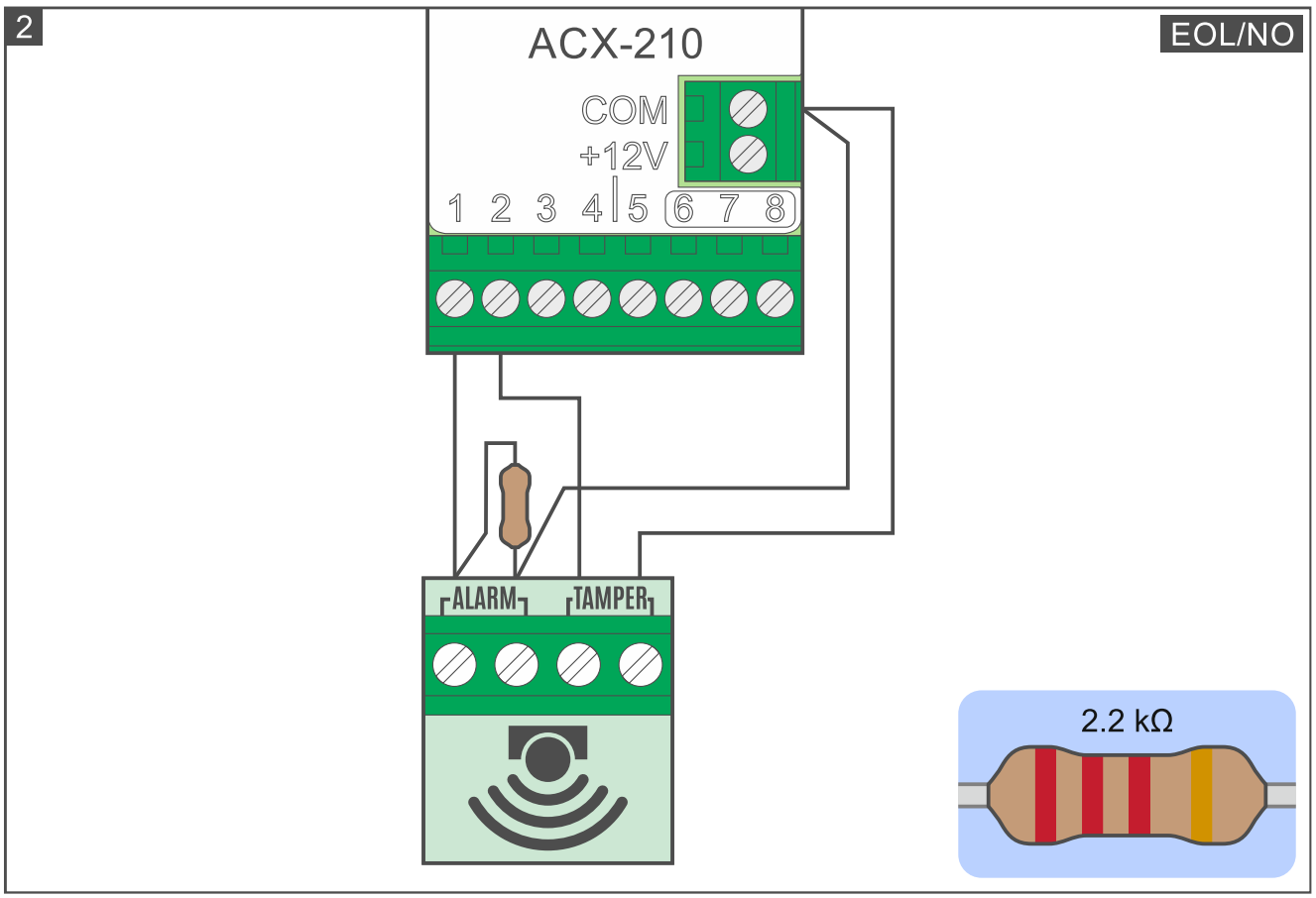
- The expander should be installed indoors, in spaces with normal air humidity.
- Do not install the expander outdoors.
- When selecting a place of installation, consider the radio communication range.
- Thick walls, metal partitions, etc. reduce the range of the radio signal.
- To connect devices to the expander terminals, use flexible wires with a cross-section of 0.5-0.75 mm^2.

3.2 Mounting

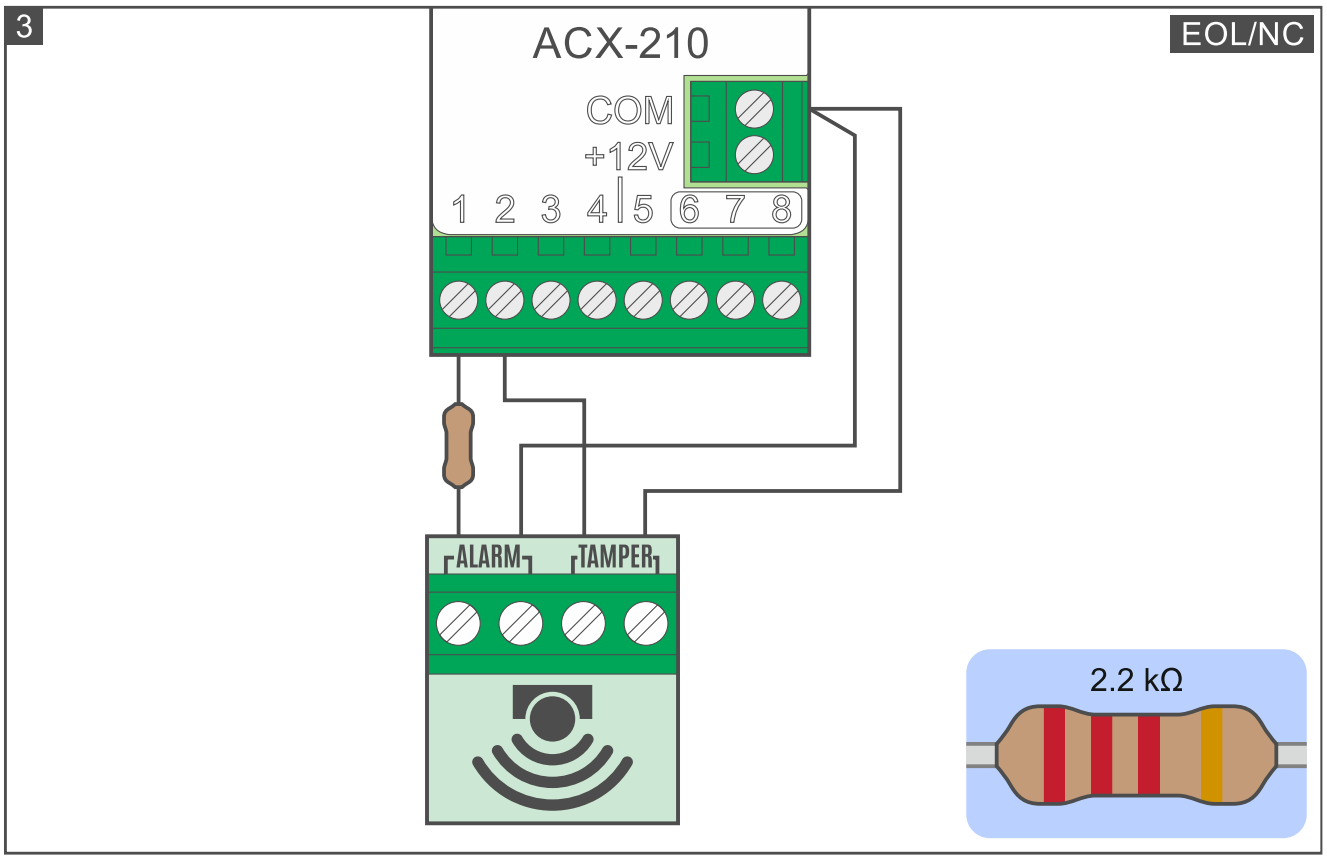
1. If the expander is to be installed inside another device enclosure, run a bundle of wires into the enclosure so as to make the connections described below.
2. Connect detectors to the expander zones. If the detector is to operate in the Single EOL configuration, use a 2.2 kΩ resistor (Fig. 2 and 3). If the detector is to operate in the Double EOL configuration, use two 1.1 kΩ resistors (Fig. 4).
3. Connect the devices to the expander outputs.
4. Connect the power wires to the +12V and COM terminals.
5. Secure the expander to the mounting surface or, if it is to be installed in the enclosure of another device, place the expander inside that enclosure. You can use a double-sided tape to secure the expander.
6. Add the expander to the system (see the manual for the BE WAVE system controller or the BE WAVE Hybrid system control panel). When a request to turn on the device will be displayed, power up the expander.

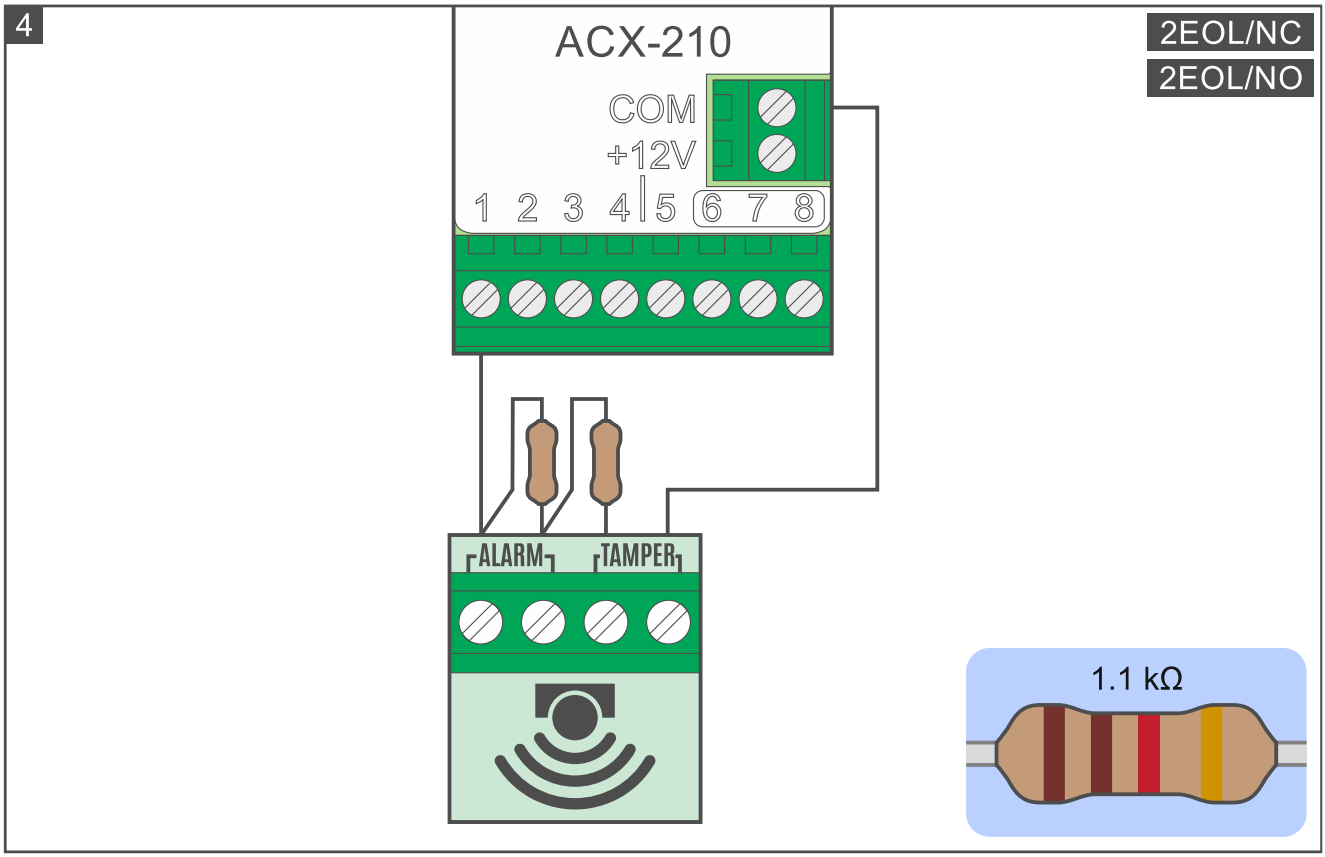
Taking into account the requirements of the EN 50131-3 standard, select 400 ms when programming the sensitivity of alarm zones.

2


ACX-210
COM
+12V
1 2 3 4 5 6 7 8
ALARM
TAMPER
EOL/NO
2.2 kΩ

3


ACX-210
COM
+12V
1 2 3 4 5 6 7 8
ALARM
TAMPER
EOL/NC
2.2 kΩ



4. Specifications

Operating frequency band ..... 868.0 MHz ÷ 868.6 MHz
Radio communication range (in open area) ..... up to 1400 m
Supply voltage ..... 4...24 VDC
Standby current consumption ..... 30 mA
Maximum current consumption ..... 35 mA
OC type low-current outputs ..... 50 mA / 12 VDC
Complied with standards ..... EN 50130-4, EN 50130-5
Environmental class according to EN50130-5 II
Operating temperature range ..... -10°C...+55°C
Maximum humidity ..... 93±3%
Dimensions ..... 21 x 41 x 13 mm
Weight ..... 10 g