ACSP

Addressable remote indicator
WZ-400 EN
Firmware version 1.00
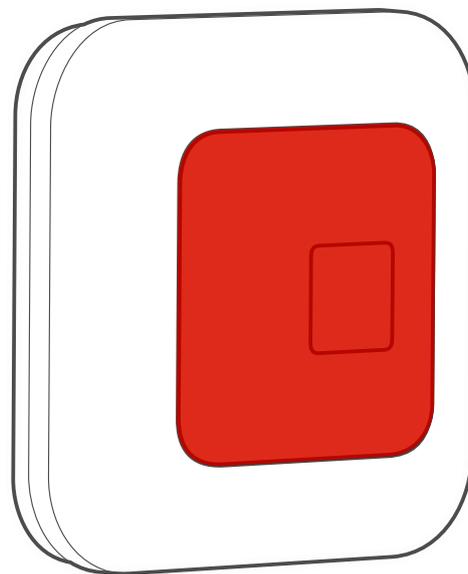
CE CNBOP-PIB

wz-400_en 02/23

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IMPORTANT

The device should be installed by qualified personnel.

Prior to installation, please read carefully this manual in order to avoid mistakes that can lead to malfunction or even damage to the equipment.

Disconnect power before making any electrical connections.

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

The following symbols may be used in this manual:

 - note,

 - caution.

The WZ-400 indicator is used to indicate the selected events in the fire alarm system by LEDs. The events may involve:

- a single detector / a single side line module:
    - alarm triggered by detector / module,
    - faulty detector / module,
    - disabled detector / module.
- zones:
    - alarm in zone,
    - faulty device in zone,
    - disabled device in zone.
- groups:
    - activation of group sounders,
    - faulty device in group,
    - disabled device in group.

[i] *Indication of sounder activation, disablement and fault is not covered by the National Technical Assessment and/or Certificate of Constancy of Performance.*

The indicator is designed to operate in the detection line of the ACSP-402 addressable fire alarm control panel.

1. Features

- Optical signaling by LEDs.
- Signaling controlled by the control panel:
    - capability to link the indicator with a single detector, a single side line module, zone or group,
    - selection of events to be indicated.
- Double-sided short-circuit isolator.
- Powered from the detection line.

2. Installation

⚠ **Disconnect power before making any electrical connections.**

The indicator is designed for indoor installation, in spaces with normal air humidity. Select the place of installation so that the remote indicator signaling is visible. Make sure that the indicator is not covered or illuminated by sunlight or artificial light because this can make the optical signaling invisible. The indicator should have the same designation as the fire alarm detector that the indicator is linked with, i.e. detection line number / detection zone number and fire alarm detector(s) number(s). If the indicator is linked with a detector installed in closed spaces, ceiling voids and crawlspaces, the indicator should be installed within 1 m radius of the detector (according to the National Technical Assessment No. CNBOP-PIB-KOT- 2022/0367-1002, first edition).

1. Open the enclosure (Fig. 1).
2. Place the enclosure base against the wall or ceiling and mark the location of mounting holes (Fig. 2).
3. Drill the holes for wall plugs (anchors).

4. Run the cables through the holes in the enclosure base (Fig. 2).

5. Use wall plugs and screws to secure the enclosure base to the wall. Select wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for plaster wall, etc.).

6. Connect the detection line wires to the indicator (Fig. 3 – loop; Fig. 4 – radial circuit). To terminals A+ and A-, connect the wires from the control panel / previous device. Connect the wires to terminals B+ and B- to connect the indicator to the next device / control panel. For radial circuits, if the indicator is the last device in the circuit, do not connect the wires to terminals B+ and B- (Fig. 4). Connect the cable shields to the E / $\overline{\overline{}}$ terminals.

7. Close the enclosure.
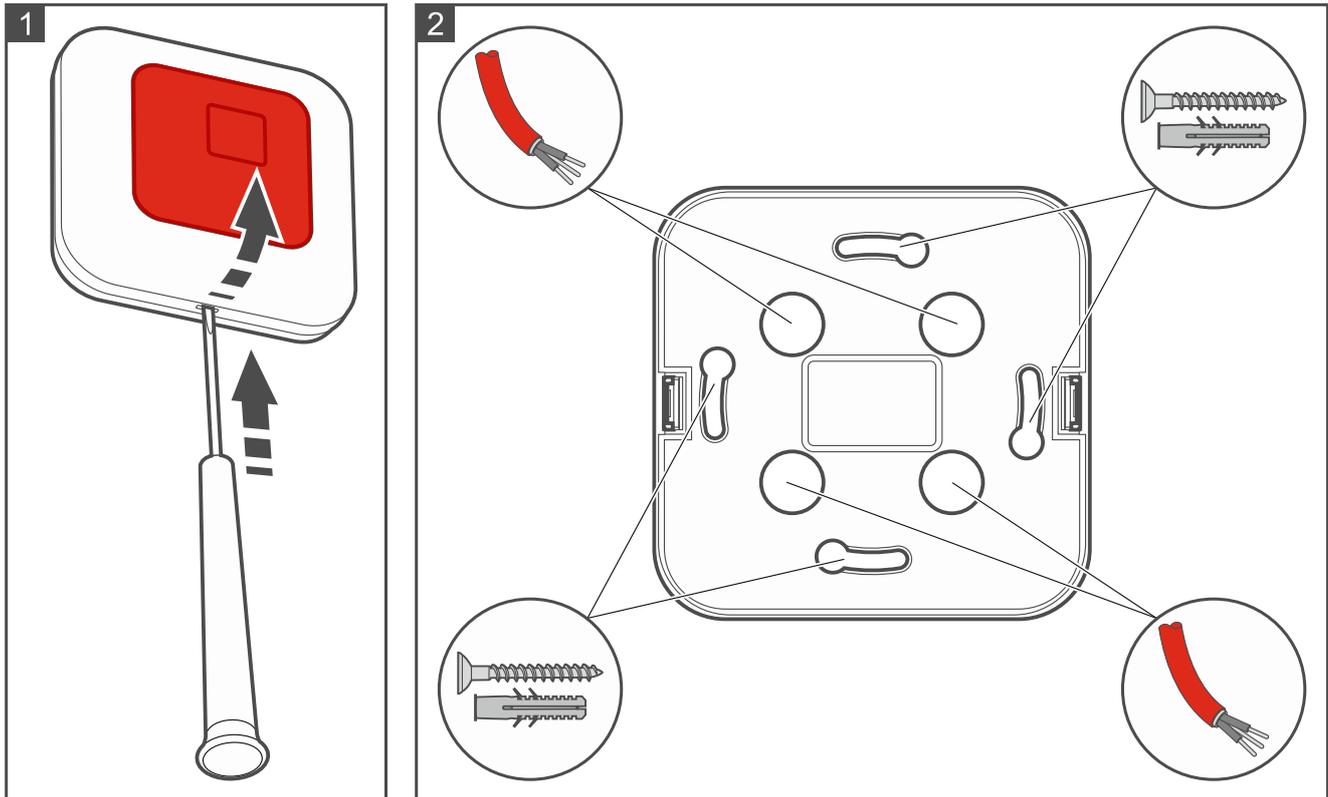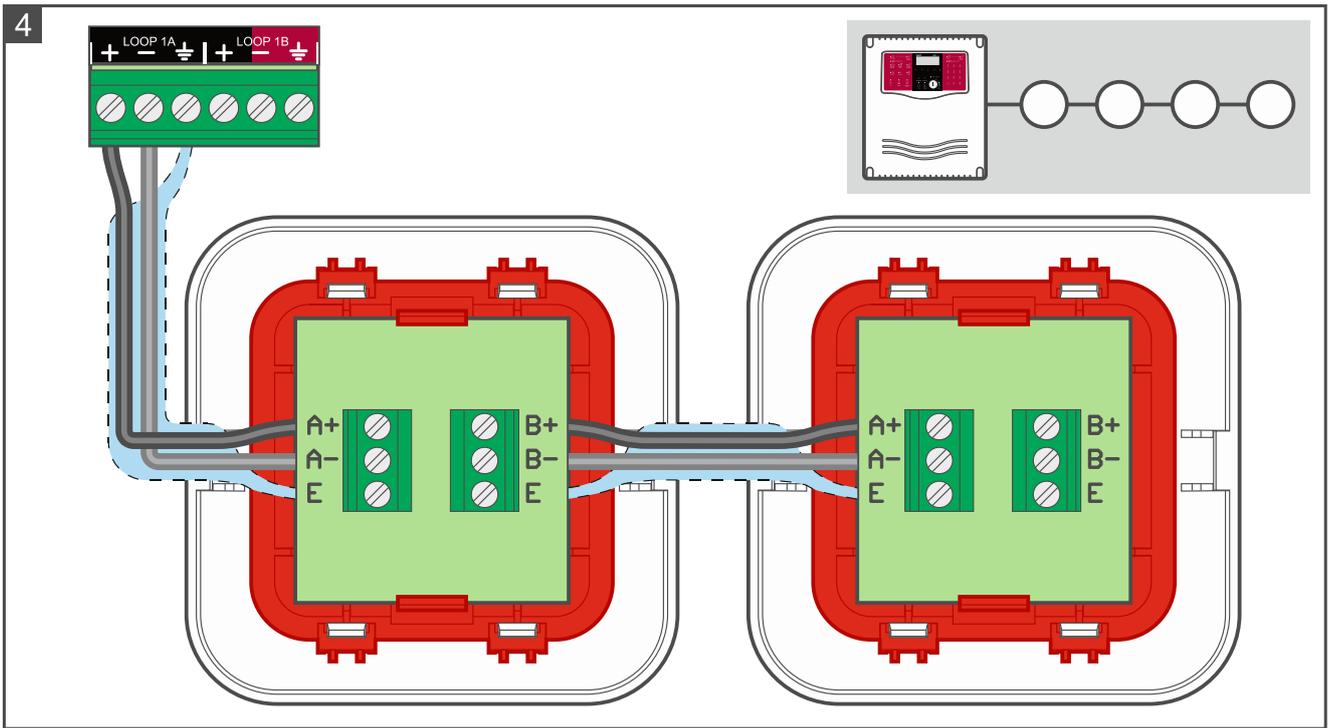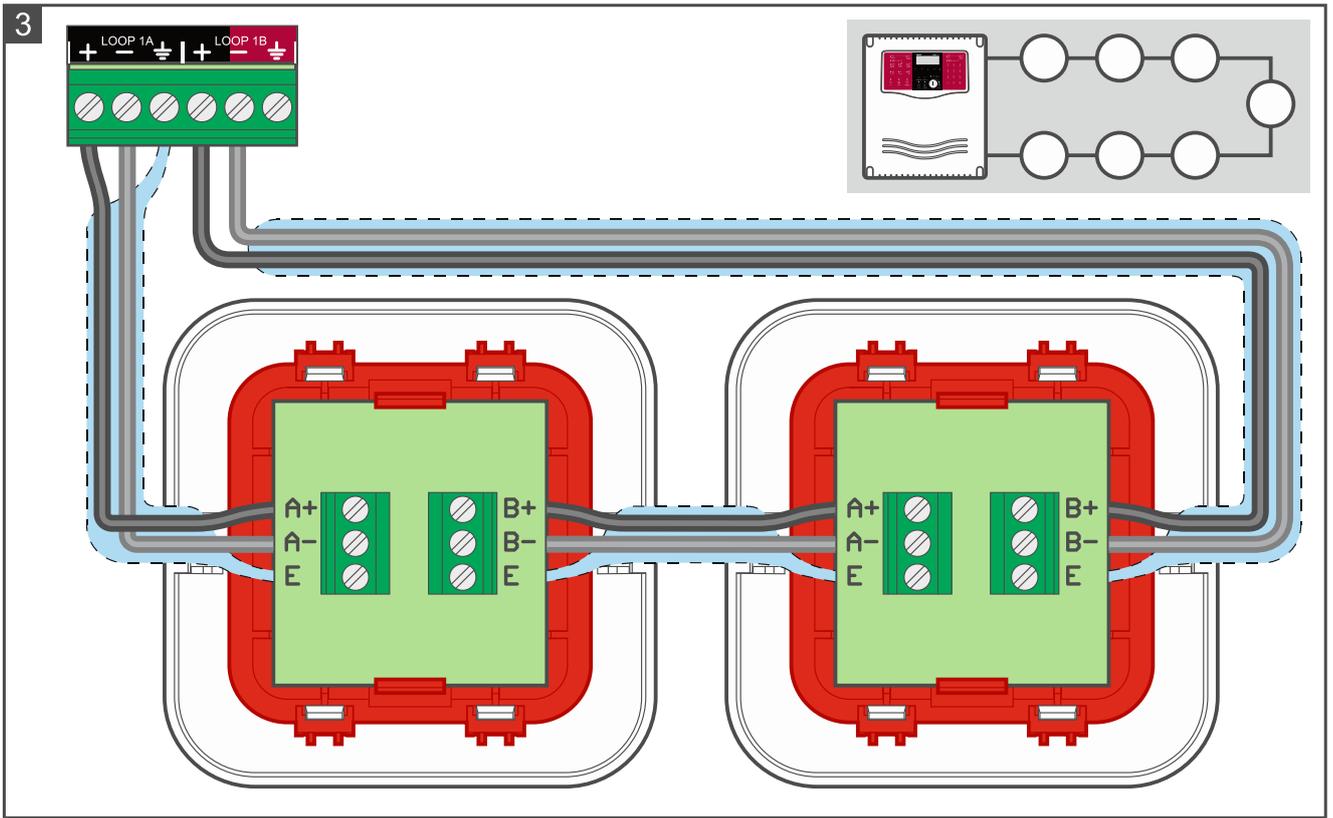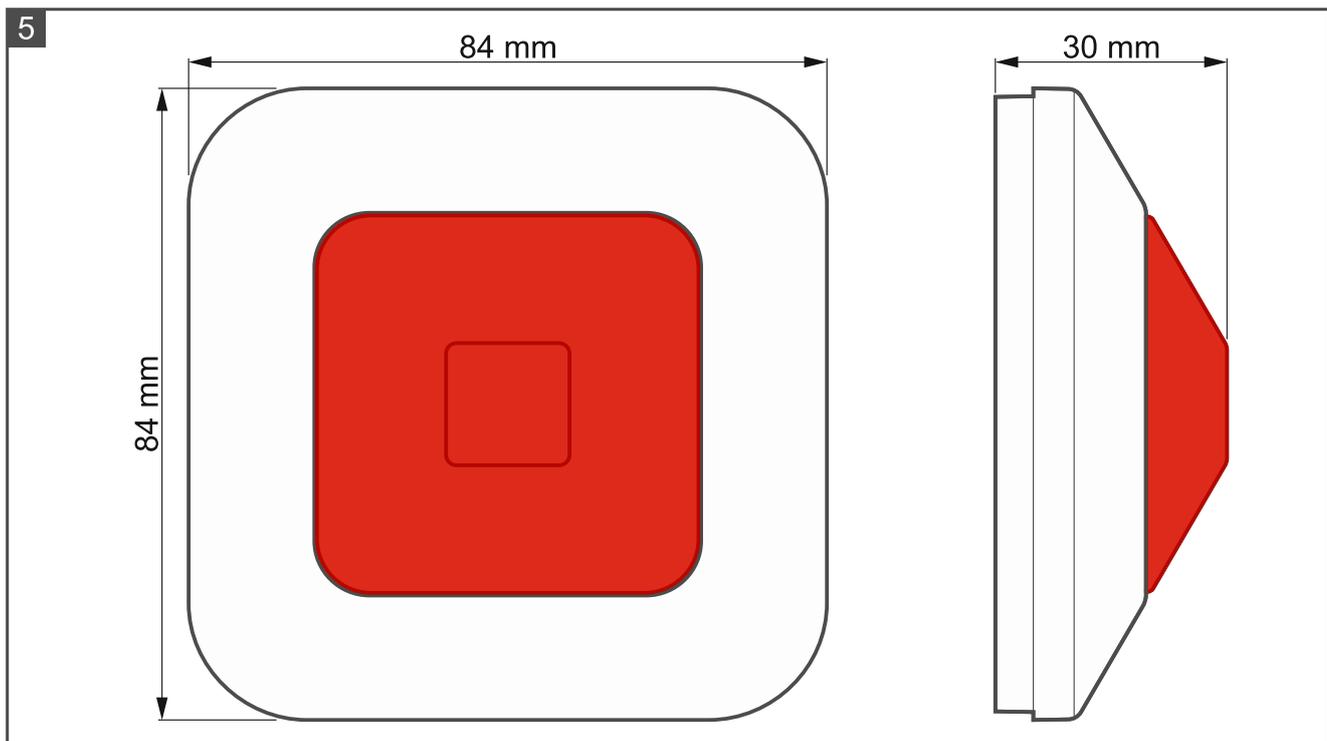
3. Maintenance

The fire alarm system elements require regular maintenance. The periodic checks of the WZ-400 indicator should be carried out at least every 6 months. In spaces where working conditions are difficult (e.g. dust, aggressive environment that may cause corrosion, etc.), the periodic checks should be carried out more often.

As part of maintenance, start a test in the control panel and make sure the indicator LEDs are working. Please go to the ACSP-402 control panel manuals to find out how to start the test. Start of the test and test activation of devices will be registered in the control panel event log. During the test, make sure the device is in its right place (e.g. it has not been swapped with another device).

4. Specifications

Supply voltage .... 18...26 VDC
Quiescent current consumption ....0.20 mA
Alarm current consumption ....1.4 mA
Event indication:
    fire alarm.. continuous light
    disablement ....slow flashing (0.91 Hz)
    fault.. rapid flashing (3.65 Hz)
Operating temperature range..-10°C...+55°C
Maximum humidity ....93±3%
Enclosure dimensions .... 84 x 84 x 30 mm
Weight..56 g

The WZ-400 remote indicator conforms to the essential requirements of the National Technical Assessment **CNBOP-PIB-KOT-2022/0367-1002 (first edition of 29.11.2022)** and the essential requirements of the EU Regulations and Directives:

CPR 305/2011 Regulation of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products and repealing the Council Directive 89/106/EEC on construction products;

EMC 2014/30/UE Electromagnetic Compatibility Directive;

LVD 2014/35/EU Low Voltage Directive.

The CNBOP-PIB Certification Body in Józefów issued the Certificate of Constancy of Performance **063-UWB-0496** for the WZ-400 type remote indicator, confirming its compliance with the requirements of the National Technical Assessment; and the Certificate of Constancy of Performance **1438-UWB-0877** for the construction product, confirming its compliance with the requirements of EN 54-17:2005 + AC:2007 Short-circuit isolators.

The Certificates can be downloaded from the **www.satel.pl** website.

The Certificates and the Declarations of Constancy of Performance can be downloaded from the **www.satel.pl** website.

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Certificate No. **063-UWB-0496**
National Declaration of Performance No. **KDWU/B/0496**

The National Technical Assessment CNBOP-PIB-KOT-2022/0367-1002 (first edition of 29.11.2022)

Name and type: WZ-400 type remote indicator

Intended use: Fire safety – devices for use in buildings.

Essential characteristics of the construction product for the intended use	Declared performance	Notes
Labelling requirements	pass	pt. 3.1 of the National Technical Assessment
Technical documentation requirements	pass	pt. 3.2 of the National Technical Assessment
Design requirements	pass	pt. 3.3 of the National Technical Assessment
Signaling by remote indicator	pass	The remote indicator LEDs are continuously ON to signal the alarm condition of the detectors or zones (detector groups) connected to it.
Visibility of the remote indicator	pass	The remote indicator powered from the detector, with background illuminance up to 500 lx, is visible from a distance of 6 m directly in front of the indicator.
Resistance to cold	pass	Temperature: -10°C (± 3°C) Endurance: 16 hours
Resistance to dry heat	pass	Temperature: +55 (± 2°C) Endurance: 16 hours
Resistance to sulphur dioxide corrosion	pass	Temperature: +25 (± 2°C) Relative humidity: 93% (± 3%) SO2 concentration: 25 ppm (± 5 ppm) Endurance: 504 hours (21 days)
Resistance to impact	pass	Impact energy: 0.5 J (±0.04J) Number of impacts per point: 3
Resistance to steady damp heat	pass	Temperature: +40°C (± 2°C) Relative humidity: 93% (± 3%) Endurance: 96 hours (4 days)
Protection against the ingress of foreign bodies provided by the enclosure	pass	IP 3X
Immunity to electrostatic discharge	pass	PN-EN 50130-4:2012 + A1:2015-03
RF electromagnetic field immunity	pass	PN-EN 50130-4:2012 + A1:2015-03
Immunity to electrical fast transients/bursts	pass	PN-EN 50130-4:2012 + A1:2015-03
Surge immunity	pass	PN-EN 50130-4:2012 + A1:2015-03
Immunity to conducted disturbances inducted by radio frequency fields	pass	PN-EN 50130-4:2012 + A1:2015-03