

MAGPRO-CZM

EN54-18

Installation Instructions

ATTENTION: The MAGPRO-CZM addressable module must be connected only to fire panels from MAGPRO Series!

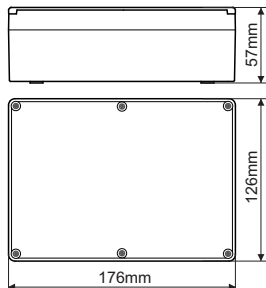
General Description

MAGPRO-CZM is an addressable module designed for application in addressable fire alarm systems, supporting MAGPRO communication protocol. The module monitors the state of connected conventional fire line and reports for its status to the control panel.

Up to 32 conventional fire detectors can be connected to a single zone.

The MAGPRO-CZM module can detect the following states in a conventional zone: fire, short circuit in the line, removed detector from its base and line break (when working with conventional detectors PSD-2, CSD-2, FHD-2 and RHD-2, use EOL connected in parallel at end of the line). MAGPRO-CZM is powered either directly from the fire panel or from external power supply unit and can be controlled via the communication protocol. The module is mounted in a separate small plastic box suitable for wall mounting, with transparent cover for visual inspection.

! Dimensions



! Installation



IP65



-10°C ÷ +60°C



~320g



Indoor use



Outdoor use

Installation

Attention: Power off the loop circuit before installing the MAGPRO-CZM addressable module!

1. Choose the proper place for installation of the module. Undo the screws of the cover and open the box.
2. Set the module address using MAGPRO-PROG Programmer or directly from addressable fire panel. The address must be in the range from 1 to 250. Use an appropriate sticker to write down the set address and to label the module.
3. Dismount the module's PCB from the box bottom. Mark mounting holes on the installation surface. Drill holes at the appropriate box side and run the cables to the module's terminals.
4. Mount the box bottom at the place of installation. Mount the PCB back on place.
5. Connect the cables to the loop and input terminals of the module according the shown Connection diagrams.
6. Close the cover of the plastic box and fix it to the bottom with the supplied screws.
7. Test the module for proper operation and LED indication.

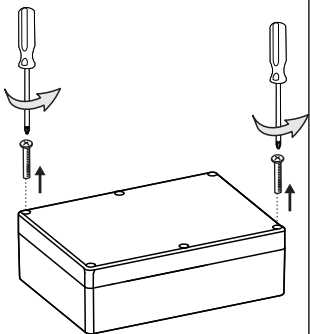
TECHNICAL SPECIFICATIONS

| | |
|--|--------------------|
| Operating voltage | 15÷ 32 VDC |
| Permissible voltage ripple | 3.0Vpp@27VDC |
| External power supply of the zone | 15÷ 32 VDC |
| Max. current consumption with external power supply of the zone | 150µA@27VDC |
| Max. current consumption with loop power supply (STAND-BY mode) | 5.5mA |
| Current consumption with 1 LED ON | 3mA |
| Max. current consumption of the detectors in ALARM mode (internal limitation): | |
| - when the zone is powered from "+L" terminal of the loop | 20mA |
| - when the zone is powered from "+H" terminal of the loop | 50mA |
| Max. cross-section of the cable | 2.5mm ² |
| Max. number of conventional detectors in one zone | 32 |
| Relative humidity | ≤93% @ +40°C |
| Material (plastic) | ABS |
| Color | White |

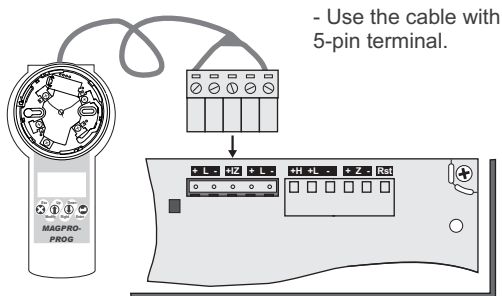


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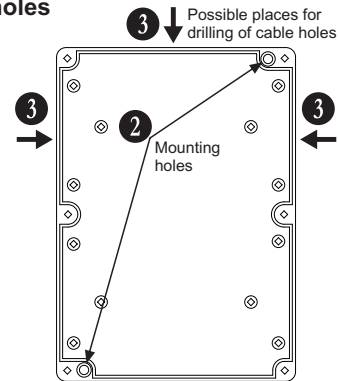
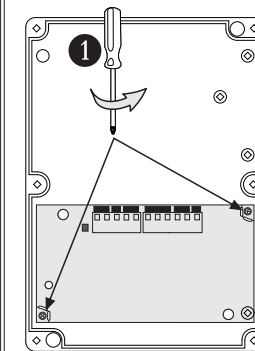
1 Open the box



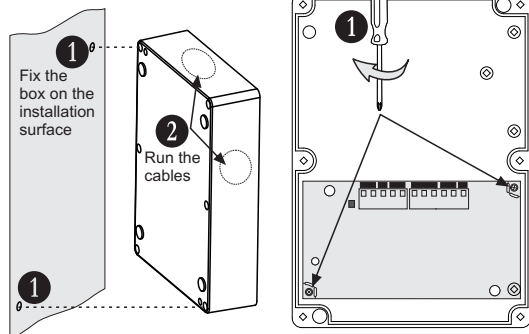
2 Address programming



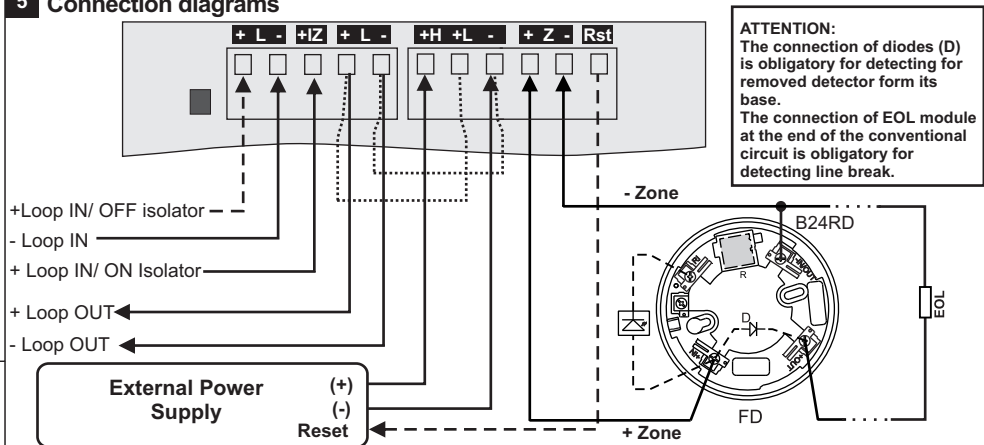
3 Mounting and Cable holes



4 Installation



5 Connection diagrams



LED Indication

In normal operation mode the red LED blinks at every communication between the module and the fire panel. In FIRE ALARM situation the red LED light on permanently. The LED activation can be disabled from panel menu: *System-Programming-Devices-Loop Devices-MORE*.

| INPUT Status | Red LED | Yellow LED |
|-------------------------------------|---------|------------|
| Fire alarm | ■ + ■ | □ |
| Normal state | ■ | □ |
| Fault: Short circuit | ■ | ■ |
| Fault: Open-circuit | ■ | ■ |
| Power supply fault | ■ | ■ |
| Communication error | ■ | ■ |
| Detector removed from the base | ■ | ■ |
| Activation of the internal isolator | ■ | □ |

Legend:

■ LED Lights on
□ LED Lights off
■ LED Blinking

Description of the terminals (read from left to right):

- +L (+Loop IN/ OFF Isolator)* - Connect the positive wire of the input communication line, in cases when the internal isolator module is not used.
 - L (-Loop IN)** - Connect the negative wire of the input communication line, not depend on using the internal isolator.
 - +IZ (+Loop IN/ ON Isolator) - Connect the positive wire of the input communication line, in cases when the internal isolator module is used.
 - +L (+Loop OUT)* - Connect the positive wire of the output communication line.
 - L (-Loop OUT)** - Connect the negative wire of the output communication line.
 - +H (Power Zone Hi current) - Input for power supply of the zone (external unit). The current consumption in the zone is in the range up to 50mA.
 - +Z (Power Zone Low current) - Input for power supply of the zone (directly form the communication line). The current consumption in the zone is in the range up to 20mA.
 - +Z (+Zone) and -Z (-Zone) - Inputs for connecting the positive and negative zone wires
 - Rst (Reset OUT) - OC (open collector) type output. Used to Reset of the external power supply of the zone (if the device has this option).
- * The terminals +L (+Loop IN/ OFF Isolator) and +L (+Loop OUT) are connected together; ** The terminals -L (-Loop IN) and -L (-Loop OUT) are connected together.