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1293  
DoP No: 026  
Tested by EVPU

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## SensolRIS MOUT IP65

Intelligent analogue addressable fire alarm  
monitored output module for conventional  
sounders with built-in isolator module

**ATTENTION:** Read carefully this installation Instructions before installing the device! This manual is subject to change without notice! The addressable module SensolRIS MOUT IP65 must be connected only to fire panels supporting TTE communication protocol!

SensolRIS MOUT IP65 is an addressable module with one monitored (potential) output. The module provides interface between a zone of conventional sounders and iRIS series or SIMPO addressable fire panels. The module is powered on from the panel and can be controlled via the communication protocol.

The potential output must be powered on from an external power supply unit 24VDC.

The module has a built-in isolator module which when used allows continuous operation of the loop in case of module's failure and without need of using additional isolator modules.

**The module monitors and transfers to control panel the status of the output - short circuit, interruption or missing of power supply in the circuit.**

In case of fault condition the module will not activate its output circuit. If the output circuit is ON and a fault condition appears, it will be switched automatically OFF. When the fault condition disappear the output circuit will restore to its last condition (ON/OFF), if the condition was not changed until that moment.

### TECHNICAL SPECIFICATIONS

Operating Voltage	16 - 32VDC
Permissible voltage ripple	3.0Vpp@27VDC
External power supply for the potential output	24VDC
Outputs, electrical characteristics (max.)	DC 28V/0.75A; AC 125V/0.5A
Max. current consumption in Stand-by mode	270µA@27VDC
Current consumption with 1 LED on - relay/fault condition	3.6mA
Communication protocol	TTE
Material - cover/enclosure	PC/ABS
Color - cover/enclosure	black transparent/white

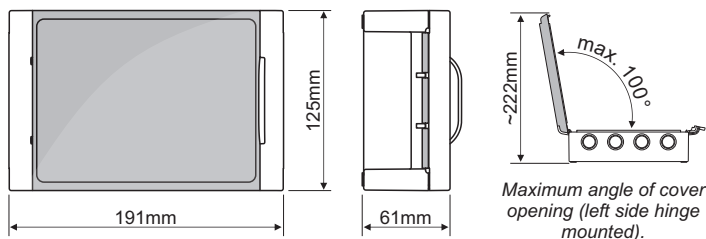
### ISOLATOR MODULE TECHNICAL SPECIFICATIONS

Maximum line voltage - Vmax	32V
Nominal line voltage - Vnom	28V
Minimum line voltage - Vmin	16V
Maximum voltage at which the device isolates - Vso max*	7.5V
Minimum voltage at which the device isolates - Vso min*	5.9V
Maximum voltage at which the device reconnects - Vsc max**	6.7V
Minimum voltage at which the device reconnects - Vsc min**	5V
Maximum rated continuous current with the switch closed - Ic max	0.7A
Maximum rated switching current (e.g. under short circuit) - Is max	1.8A
Maximum leakage current with the switch open (isolated state) - Il max	16mA
Maximum series impedance with the switch closed - Zc max	0.12Ω@28VDC; 0.15Ω@16VDC

\* Note: Switches from closed to open

\*\* Note: Switches from open to closed

### Dimensions



### Included spare parts

- x 8 Plastic caps Ø20mm, see section 3.
- x 4 Securing screws 2.9x13 DIN 6954, see section 6.
- x 2 Resistors 56k ±5% 0.25W, see section 8.
- x 1 Sticker (transparent base and white symbols), 70x15mm, with description of the module's type: MOUT - "0" Inputs / "1" Monitored Output
- x 1 Rubber sealant, round cross section Ø2.5mm, length ~580mm, factory mounted on the back side of the front cover - see section 5

### Installation



\* The declared IP65 protection is achieved when using the rubber gasket sealant (factory mounted on the back side of the front cover - see section 5) and IP65 or higher rated cable glands for cable running (not included). After ending the installation, the unused openings for cable running must be closed with the provided plastic caps for IP65 complete protection of the box.



-10°C ÷ +60°C  
(93±3)%@+40°C



~191g

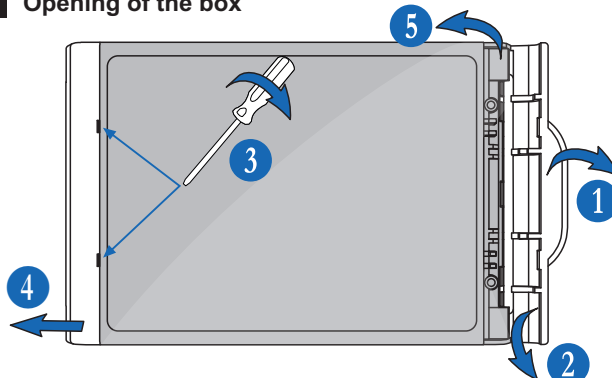


0.5-2.5mm<sup>2</sup>



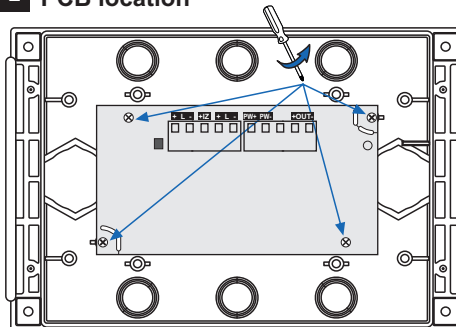
Indoor and Outdoor use

### 1 Opening of the box



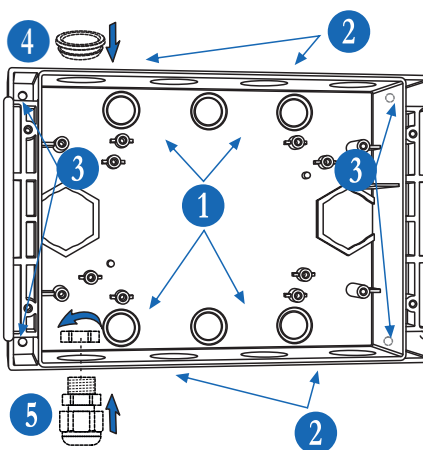
1. Press the handle of the right side hinge and open it.
2. Press lightly downwards to dismantle the hinge from the box bottom.
3. Use a flat screwdriver to open the left side hinge - put it in the openings and rotate.
4. Pull aside the left hinge to dismantle it from the box bottom.
5. Open the front cover and dismantle it from the box bottom.

### 2 PCB location



It is recommended to dismantle the PCB from the box bottom during installation of the module. Use a suitable crossed-slot screwdriver to undo the fixing screws. Keep the PCB in a safe place to avoid any damages, away from dust and dirt during the installation.

### 3 Cable openings and wall mounting

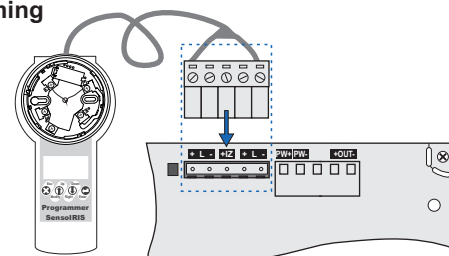


1. 6 x M16 knockout openings for running cables (for built-in wiring installation systems). To remove the plastic caps use a suitable drilling or breaking tool. Remove the knockouts just for the openings you are going to use.
2. 8 x M20 openings for running cables (for surface wiring installation systems). The unused openings must be closed with the provided plastic caps. For outdoor installations or mounting in aggressive environments use IP65 or higher rated cable glands for cable running.
3. 4 x Ø3.5mm openings for surface mounting of the box bottom. Use suitable fixing elements according the mounting surface.
4. Plastic caps for protection of the unused M20 openings\*.
5. Optional mounting of IP65 or higher rated cable glands for running cables (not included in the supplied equipment)\*.

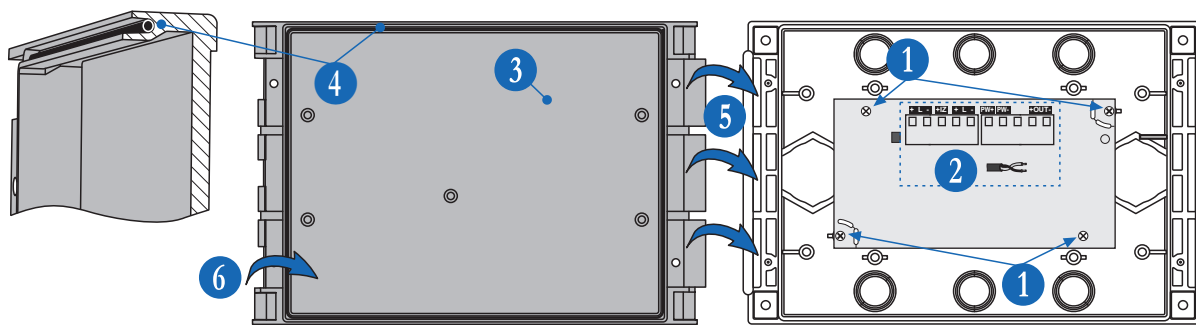
\* The picture is illustrative. The number and position of the mounted elements may differ according the type, size and organization of the installation system.

### 4 Address programming

Set the module address using SensolRIS Programmer (use the cable with 5-pin terminal) or directly from the addressable fire panel. The address must be in the range from 1 to 250. The set address is one for the entire module.

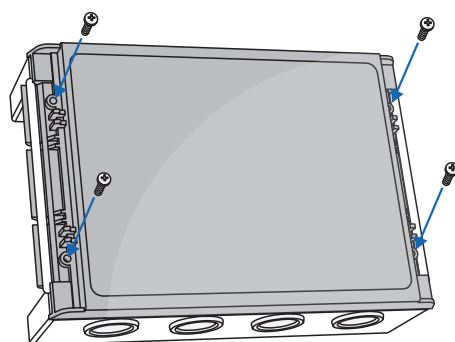


## 5 Closing the box



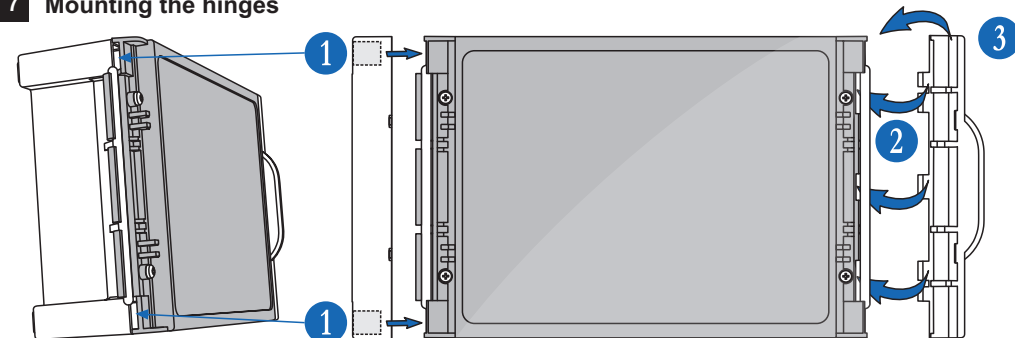
1. Mount the PCB back to the box bottom.
2. **Power off the loop circuit!** Run the cables to the module's loop and monitored output terminals. Connect the cables to the loop and monitored output terminals of the module according to the shown Connection diagrams.
3. Take the front cover and turn it to the back side as shown.
4. Check the rubber sealant for IP65 protection - it must be placed along the whole channel on the back side without any damages or cutting.
5. Attach the front cover to the left side of the box bottom (left hinge junction).
6. Close the front cover to the right and press until a click is heard (right hinge junction).

## 6 Security screws



Use the supplied with the module screws for fixing the front cover to the box bottom.

## 7 Mounting the hinges



1. Match the ribs on the back side of the left hinge with the cavities formed between the front cover and the bottom. Press the left hinge towards until a click is heard.
2. Attach the spherical ribs of the right hinge to the box bottom as shown.
3. Rotate the right hinge to close and press until a click is heard.

## 8 Connection diagrams

SensolIRIS MOUT IP65 is connected and powered directly from the loop line. The module is equipped with a built-in isolator module, which can be used or not, according to the requirements of the fire alarm installation.

The monitored output is powered on from an external power supply unit 24VDC.

**Attention: The connection of the module to the loop line must be done with switched off main and back-up power supply of the fire alarm panel!**

The module is equipped with two 5-position plug terminals for easy connection to the loop line and monitored output connection. To connect the wires just pick up the plug terminal to dismantle it from the PCB terminal. Make the electrical connections observing the polarity. Then mount back the plug terminal to the PCB terminal.

### LED Indication

In normal operation mode the **red LED** blinks at every communication between the module and the fire panel.

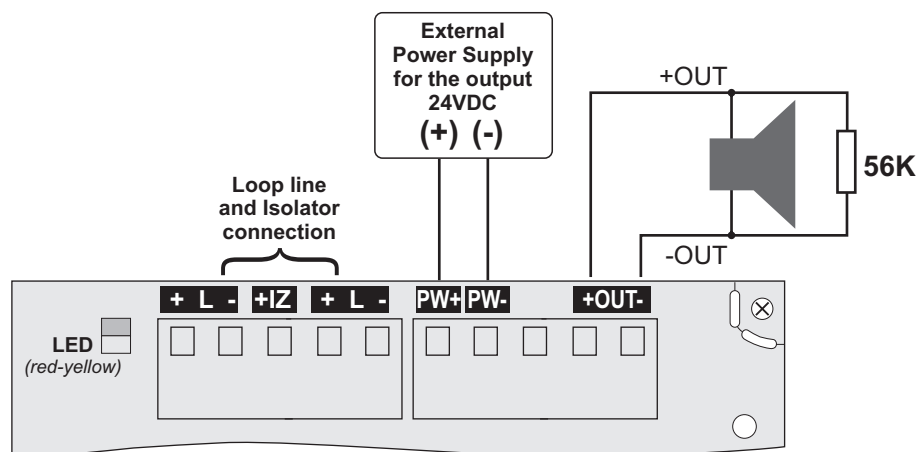
The **red LED** lights on permanently when the output is activated\*.

\*Note: LED indication follows the logical state of the module.

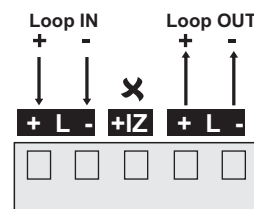
The **yellow LED** lights on permanently in case of the following conditions in the output line: Short circuit in the line; Open line; External power supply fault.

The LED activation can be disabled from panel's menu - iRIS/SIMPO.

### Connection of the monitored output



### Without using the built-in isolator



### With using the built-in isolator

