Installation Quick Guide

Esmi Fire

O2039GB3

Esmi Impresia Potential Output for Sounder Module

Safety Information

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Esmi Impresia Potential Output for Sounder Module

Esmi Impresia Potential Output for Sounder Module (FFS06741019) is an addressable module with one potential designed for installing in addressable fire alarm systems with Esmi ELC loop controller supporting Schneider Electric communication protocol. The module provides interface between a zone of conventional sounders and FDP fire panels. It 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. 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. The module is mounted in a separate plastic box suitable for wall mounting and with IP55 protection. EN54-18 for indoor and outdoor use. The address setting is done by the panel, QR code or handheld addressing device. The address range is 1-250.

For more technical information visit www.se.com.

DANGER

HAZARD OF ELECTRIC SHOCK

Ensure that the correct terminals are used for the loop and switched voltage connections. Do not exceed the relay ratings. High voltages may be present on the relay terminals. Always turn off all power supplying this device before working inside the device enclosure.

Failure to follow these instructions will result in death or serious injury.

Installation Instructions

Note: Collect the QR code stickers from the devices if QR codes are used for addressing of the devices.

1. Follow the applicable local and national installation codes and regulations. Choose the proper place for installation of the device.
2. Turn power off the loop circuit before installing the module.
3. Set the module address using programmer or directly from addressable fire panel.
4. Run the wires to the module terminals.
5. Connect the wires of the external power supply to the terminals PW+ and PW- of the module as shown on the connection diagram.
6. Connect the wires of the output to terminals OUT+ and OUT- of the module as shown on the connection diagram.
7. Connect the wires of the communication line - with or without using the built-in isolator.
8. Test the module for proper operation and LED indication.
9. Close the cover of the plastic box.

Technical Specifications

Operating Voltage	16 - 32VDC
Permissible voltage ripple	3.0Vpp@27VDC
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 or fault condition	3.6mA
Relative humidity resistance	(93 ± 3)% @ 40°C
Material (plastic)	PS
Color	Grey
EOL	56k
Supported communication protocol	Esmi ELC

Note: *External 24Vdc required.*

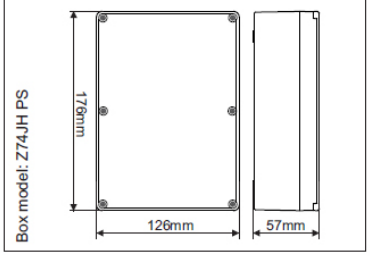
Isolator Module Technical Specifications

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

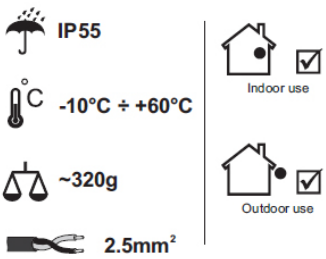
** Note: Switches from closed to open*

*** Note: Switches from open to closed*

Dimensions



Installation



CE 21 1293

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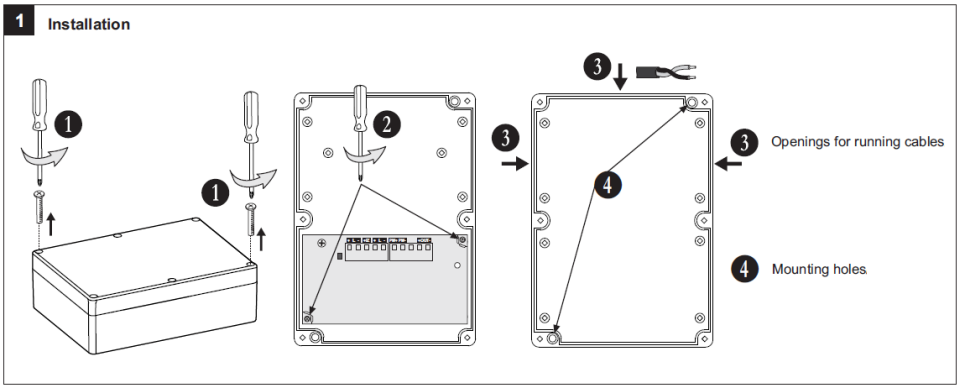

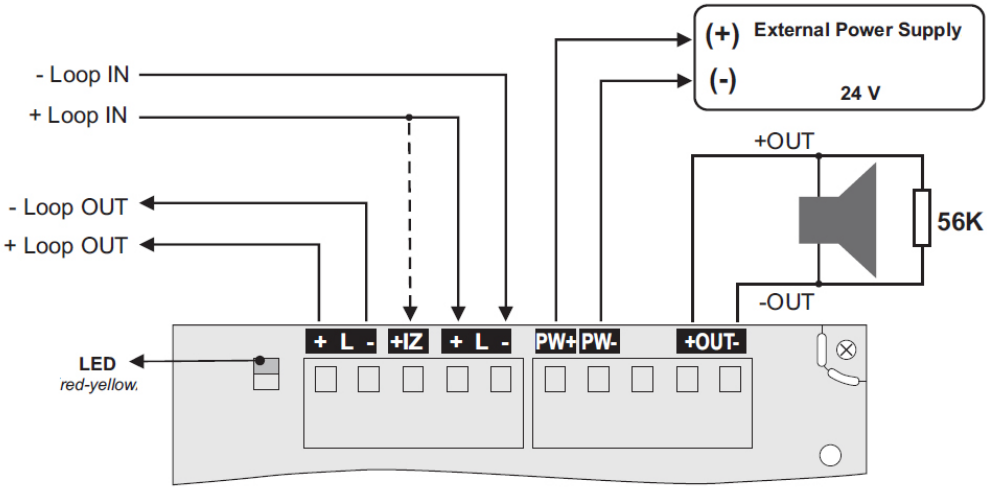

LED Indication

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.

Description of the Connection Diagram

-L (-Loop IN) - Connect the negative wire of the input communication line.
+L (+Loop IN) - Connect the positive wire of the input communication line.
-L (-Loop OUT) - Connect the negative wire of the output communication line.
+L (+Loop OUT) - Connect the positive wire of the output communication line.
PW+ (Power +) - Connect the "+" wire of the external power supply of the output.
PW- (Power -) - Connect the "-" wire of the external power supply of the output.
+OUT - Connect the positive wire of the output.
-OUT - Connect the negative wire of the output.
Note: When you use the integrated short circuit isolation module connect one of the "**+Loop**" loop lead to the "**+IZ**" terminal of the module!

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