

### 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 Relay Output Module 240V

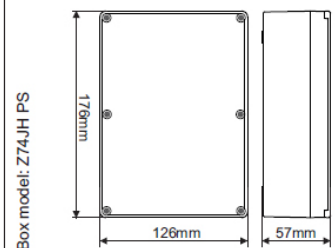
Esmi Impresia Relay Output Module 240V (FFS06741020) is an electrical main switching relay output control module designed for installing in addressable fire alarm systems with Esmi ELC loop controller supporting Schneider Electric communication protocol. The module provides interface for 240V and it is suitable for control of 240VAC voltage circuits. The module is mounted in a separate small plastic box suitable for wall mounting and IP55 protection. Esmi Impresia Relay Output Module 240V is designed according the requirements of EN54-18 and EN54-17.

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](http://www.se.com).



#### Dimensions



#### Installation

IP55  
 -10°C ÷ +60°C  
 ~320g  
 2.5mm<sup>2</sup>

Indoor use  
 Outdoor use

**CE**<sub>21</sub>  
 1293  
 DoP: DP20036  
 Made in Bulgaria  
 EN 54-18:2005  
 EN 54-18:2005/AC:2007  
 EN 54-17:2005  
 EN 54-17:2005/AC:2007

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**⚠ 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 loop circuit according the shown connection diagram.
6. Connect the wires of the relay circuit according the shown connection diagram.
7. Test the module for proper operation and LED indication.
8. Close the cover of the plastic box.

### Technical Specifications

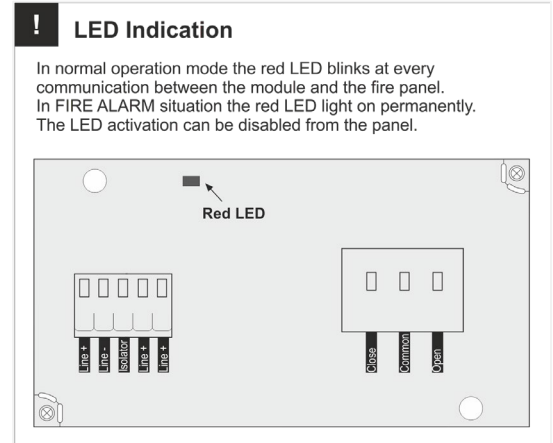
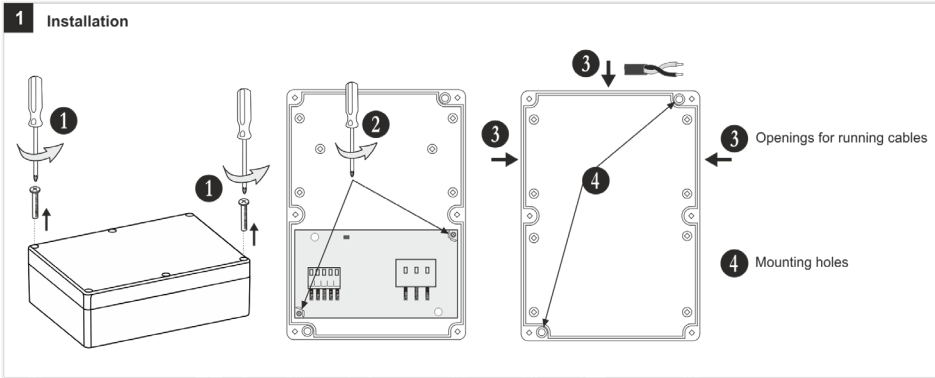
|                                  |                       |
|----------------------------------|-----------------------|
| Operating Voltage                | 16 - 32VDC            |
| Nom. current consumption         | 220µA                 |
| Consumption stand-by mode        | 175µA                 |
| Current consumption with LED on  | 4mA                   |
| Relay ratings                    | 4A/ 250VAC; 3A/ 30VDC |
| Relative humidity resistance     | ≤93% @+40°C           |
| Material (plastic)               | PS                    |
| Color                            | Grey                  |
| Supported communication protocol | Esmi ELC              |

### Isolator Module Technical Specifications

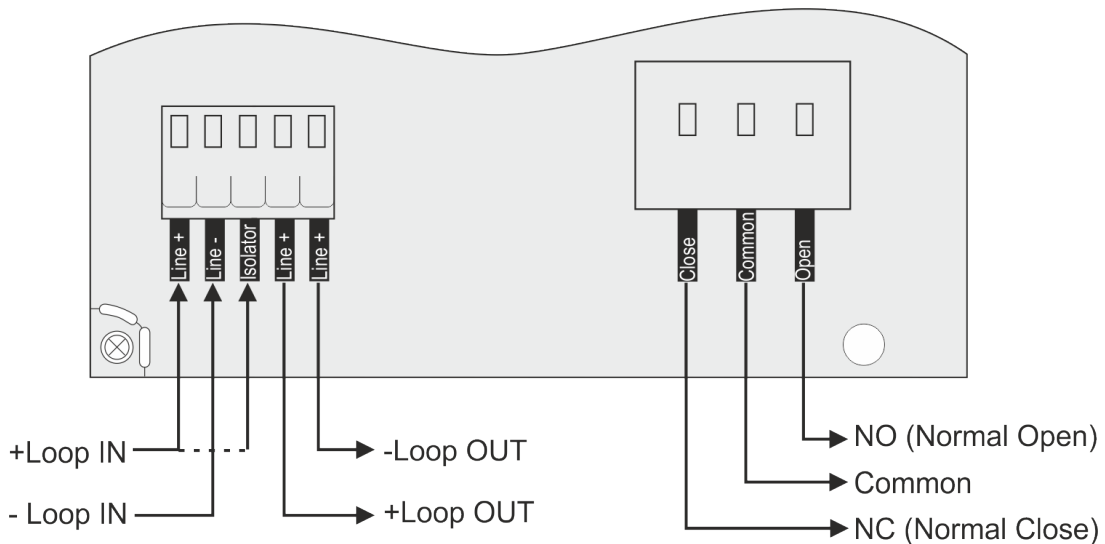
|                        |   |                          |
|------------------------|---|--------------------------|
| V <sub>max</sub>       | Maximum line voltage  | 32V                      |
| V <sub>nom</sub>       | Nominal line voltage  | 28V                      |
| V <sub>min</sub>       | Minimum line voltage  | 16V                      |
| V <sub>so max</sub> *  | Maximum voltage at which the device isolates                  | 7.5V                     |
| V <sub>so min</sub> *  | Minimum voltage at which the device isolates                  | 5.9V                     |
| V <sub>sc max</sub> ** | Maximum voltage at which the device reconnects                | 6.7V                     |
| V <sub>sc min</sub> ** | Minimum voltage at which the device reconnects                | 5V                       |
| I <sub>c max</sub>     | Maximum rated continuous current with the switch closed       | 0.7A                     |
| I <sub>s max</sub>     | Maximum rated switching current (e.g. under short circuit)    | 1.8A                     |
| I <sub>l max</sub>     | Maximum leakage current with the switch open (isolated state) | 16mA                     |
| Z <sub>c max</sub>     | Maximum series impedance with the switch closed               | 0.12Ω@28VDC; 0.15Ω@15VDC |

\*\* Note: Switches from open to closed

\* Note: Switches from closed to open



**Wiring**



**Description of the Connection Diagram**

- Loop IN** - Connect the negative wire of the input communication line.
- +Loop IN** - Connect the positive wire of the input communication line.
- Loop OUT** - Connect the negative wire of the output communication line.
- +Loop OUT** - Connect the positive wire of the output communication line.
- NC (Normal Close)** - Normal Close relay contact
- NO (Normal Open)** - Normal Open relay contact
- Common** - Common ground

**Note:** When you use the integrated short circuit isolation module connect one of the “+Loop” loop lead to the “Isolator” terminal of the module!