

**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.



**Esmi Impresia 4 Inputs/0 Outputs Module**

Esmi Impresia 4 Inputs/0 Outputs Module (FFS06741010) is an addressable module, that monitors four analogue input signals and is designed for installing in addressable fire alarm systems with Esmi ELC loop controller supporting Schneider Electric communication protocol. 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 is mounted in a separate plastic box suitable for wall mounting and with IP55 protection.

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).

**Technical Specifications**

Operating voltage	16 ÷ 32 VDC
Consumption stand-by mode	300µA@27VDC
Nom. current consumption	330µA@27VDC
Current consumption with 1 LED on	4mA
Current consumption with 2 LEDs on	7mA
Installation wires	0.4mm <sup>2</sup> ÷ 2.0mm <sup>2</sup>
Relative humidity	≤93% @ +40°C
Material (plastic)	PS
Color	Grey
EOL	.56k
Supported communication protocol	.Esmi ELC

**Isolator Module Technical Specifications**

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

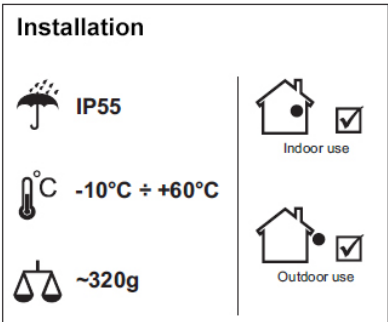
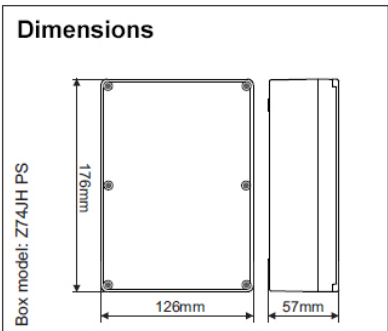
\* Note: Switches from closed to open

\*\* Note: Switches from open to closed

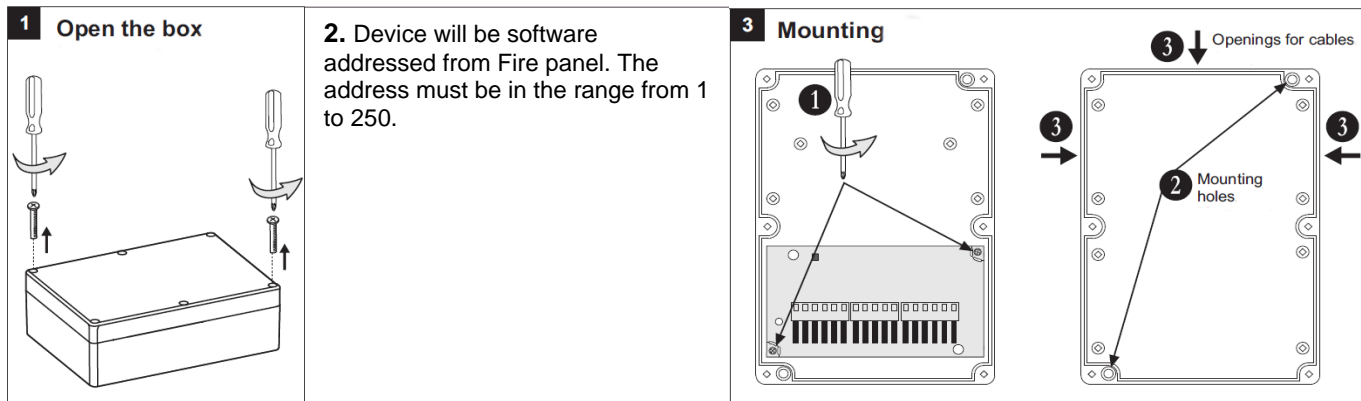
**Installation**

**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 module.
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 cables to the module terminals.
5. Connect the cables to the loop and input terminals of the module according the shown Connection diagrams.
6. Test the module for proper operation and LED indication.
7. Close the cover of the plastic box.



**CE** 21  
1293  
DOP: DP20026  
Made in Bulgaria  
EN 54-18:2005  
EN 54-18:2005/AC:2007  
EN 54-17:2005  
EN 54-17:2005/AC:2007



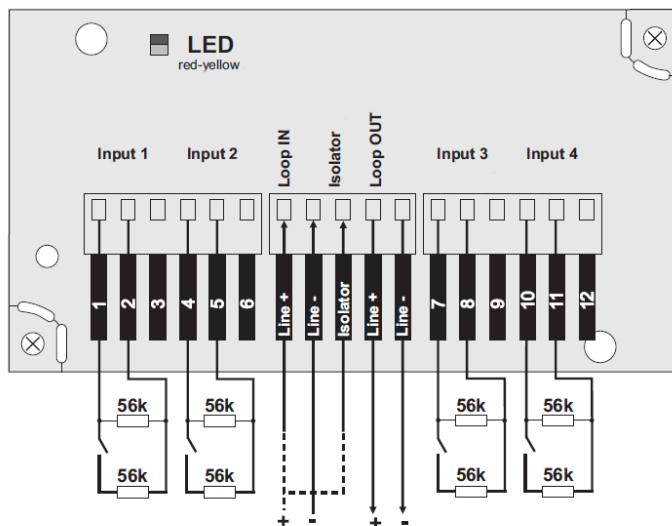
- 3. Openings for running cables
- 4. Mounting holes are position 2 on figure 3

**INPUTS status**

Status	Description	R*	I**
SHORT	Short circuit	<13k	>54µA
ON	Activation	13k-36k	38µA - 54µA
NORMAL	Stand-by mode	36k-90k	23µA - 38µA
OPEN	Open circuit	>90k	<23µA

- The RED LED lights on, when the least one of the inputs is turned on (state ON).
- The YELLOW LED lights on, when at least one of the inputs ins SHORT or OPEN condition, i.e. there is an input in fault condition.
- The RED LED is blinking when communication between the module and fire panel is running on.

NOTE: in situations when both the red and yellow LEDs are lighting on the actual color is recognized as orange.



**ATTENTION:** When you use the integrated short circuit isolation module connect one of the “+Loop” leads to the “Isolator” terminal instead of the “Line+” terminal.