Schneider Electric

Esmi Impresia Zone Module

Instruction Sheet

R10224GB0

1 Esmi Impresia Zone Module

Esmi Impresia Zone Module (FFS06741006) is an addressable conventional zone module, designed for installing in addressable fire alarm systems with Esmi ELC loop controller supporting Schneider Electric communication protocol. The module monitors the state of connected conventional fire line and reports for its status to the control panel. It is designed with built-in isolator module according the requirements of EN54-17. The module is mounted in a separate plastic box suitable for wall mounting with IP55 protection and possible for outdoor installations. It monitors the state of the 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 zone module can detect the following states in a conventional zone: fire, short circuit in the line, removed detector from its base and line break. The zone module is powered either directly from the fire panel or from external power supply unit.
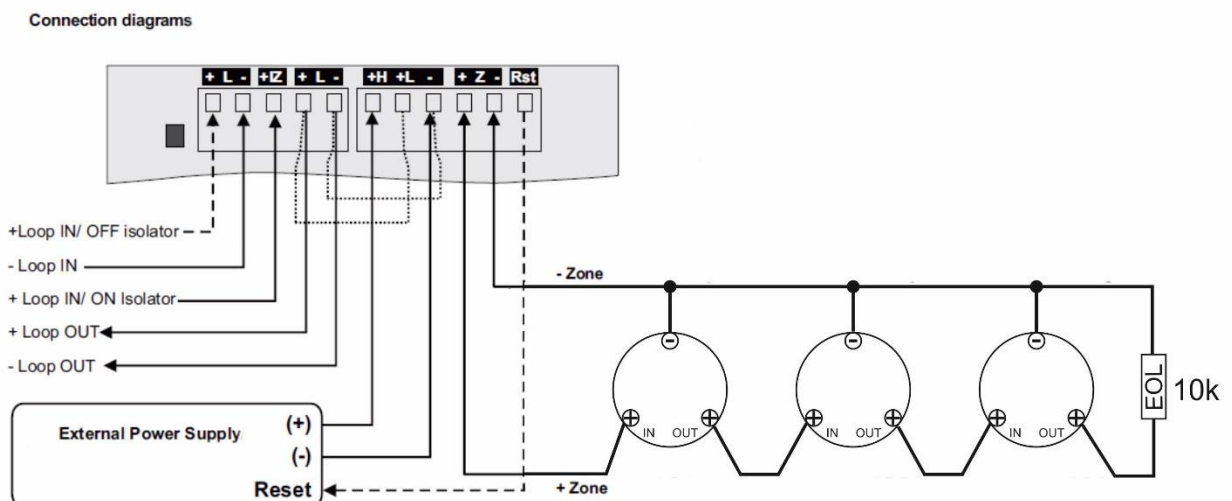
Description of the terminals (read from left to right):

+L (+Loop IN/ OFF Isolator)* - Connect the positive wire of the input communication line, in cases when the internal isolator module (build-in in Esmi Impresia Zone 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 (build-in in Esmi Impresia Zone 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.

+L *(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.

** 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.*

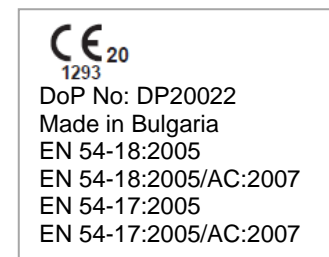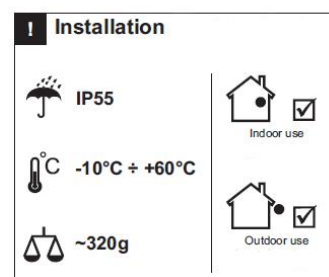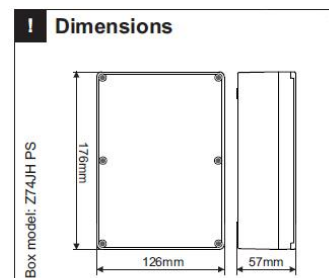| INPUT Status	LED Red	LED Yellow
Fire alarm ALARM INCENDIO	■ + ⬚ Inverted	□
Normal state	⬚	□
Fault: Short circuit	⬚	■
Fault: Open circuit	⬚	■
Power supply fault	⬚	■
Communication error	⬚	■
Detector removed from the base	⬚	■
Activation of the internal isolator	⬚	□

Legend:
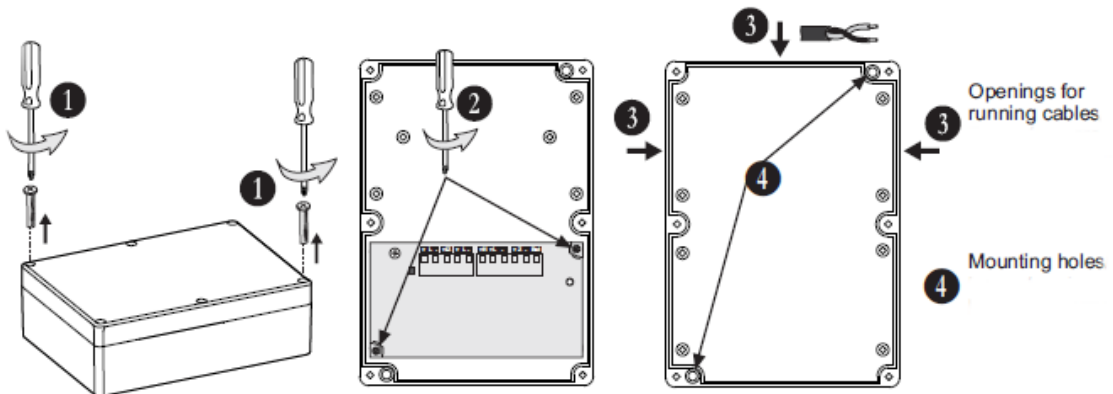
■ - LED lights on

□ - LED lights off

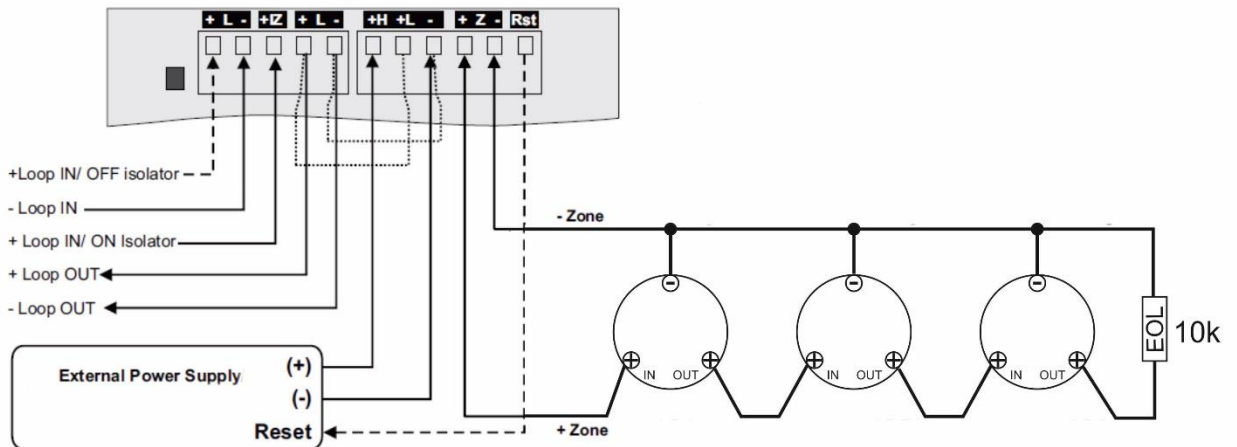⬚ - LED blinking

1.1 Installation

Attention: Turn the power off the loop circuit before installing the module!

1. Choose the proper place for installation of the module.

2. Set the module address using programmer or directly from addressable fire panel.

3. Run the wires to the module terminals.

4. Connect the wires to the terminals of the module according the shown example connection diagram.

5. Test the module for proper operation and LED indication.

6. Close the cover of the plastic box.

! Dimensions

Box model: Z74JH PS

176mm
126mm
57mm

! Installation

☂ IP55

🌡°C -10°C ÷ +60°C

⚖ ~320g

🏠 ☑ Indoor use

🏠 ☑ Outdoor use

CE 20
1293
DoP No: DP20022
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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Connection diagrams

LED Description

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.*