Intellia Sounder Control Module

EMI-301/S

Instruction Sheet

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Schneider Electric
www.se.com/buildings

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Contents

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.

Related Information

For technical specifications, please refer to the Product Datasheet for FFS06727351 on se.com.

1 Intellia Sounder Control Module EMI-301/S

Intellia Sounder Control Module EMI-301/S (FFS06727351) for Esmi Sense FDP and FX fire detection system. Fire protection systems can be engineered simply and effectively without the need for custom-designed equipment.

The EMI-301/S Module with Isolator is designed to control a zone of sounders powered by an external DC supply. The sounders will be switched to sound continuously or be pulsed, 1 s on, 1 s off. Sounder Control Units at different addresses may be controlled individually and have a facility for synchronizing the outputs, when being pulsed.

The Intellia series of products are all compatible with the ALC-board of Esmi Sense FDP and FX 3NET panel. An opto-coupled input is provided to monitor the state of the external power supply.

The Sounder Control Unit with Isolator is fitted with a bi-directional short-circuit isolator and will be unaffected by loop short-circuits on either loop input or output. It requires an external power supply of 9–32 VDC to power the external load, which may be up to 1A.

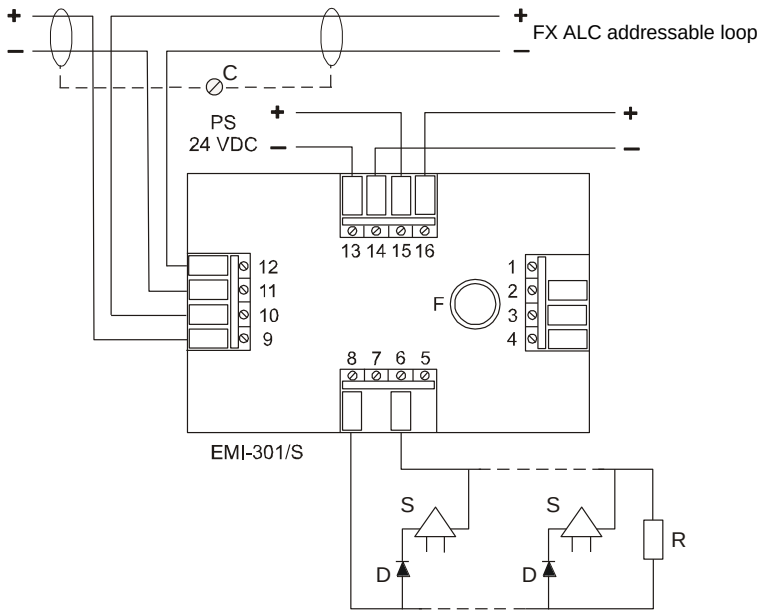
A polarising diode is required with each alarm device, as sounders are operated by voltage reversal, provided by a double-pole change-over relay. The sounder circuit is protected by a miniature (TR5) fuse rated at 1 A. A 10 kΩ end of the line resistor for alarm device line monitoring is also required to the last device on the alarm device line.

Three LEDs, one red, two yellow, are visible through the front cover of the enclosure. The red one pulses or is illuminated continuously to indicate that the sounders are, respectively, pulsed or switched on continuously. One yellow LED is illuminated whenever a fault has been detected. The other LED is illuminated whenever the built-in isolator has sensed a short-circuit loop fault.

1.1 Fault Monitoring

In addition to the monitoring of open and short circuit faults on the sounder wiring, the EMI-301/S Sounder Control Module has a facility to monitor the presence and polarity of the external power supply to the sounders. This is achieved by a circuit which includes an input to monitor a volt-free, normally open contact. A wire link must be fitted if the fault contact is not used.

1.2 Schematic Diagram & Wiring Connections



S = Sounder with polarising diode (D)
R = 10 kΩ 1/3 W
PS = Local Power Supply
F = Fuse 1.0A anti-surge

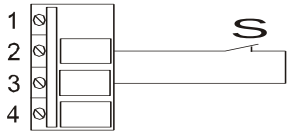
5 = Not Used
6 = Sounder –
7 = Not Used
8 = Sounder +
9 = L2 (+ve)
10 = L2 (+ve)
11 = L1 out (-ve)
12 = L1 in (-ve)
13 = Vext –ve, 24 VDC (PS)
14 = Vext –ve, 24 VDC (PS)
15 = Vext +ve, 24 VDC (PS)
16 = Vext +ve, 24 VDC (PS)

C = Additional connector for shield

Note!
This unit is polarity sensitive.

1.3 Fault input

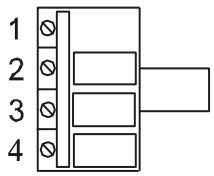
1.3.1 Normally closed fault contact



S = Fault contact of local power supply

1 = Not Used
2 = Fault input NC
3 = Fault input common
4 = Fault input NO

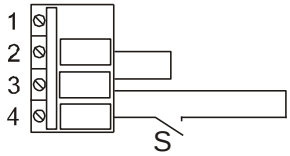
1.3.2 Fault input not used



1 = Not Used
2 = Fault input NC
3 = Fault input common
4 = Fault input NO

Note!
Wire link must be fitted.

1.3.3 Normally open fault contact



S = Fault contact of local power supply

1 = Not Used
2 = Fault input NC
3 = Fault input common
4 = Fault input NO