

Intellia DIN-RAIL Dual Isolator EMI-400

Instruction Sheet
R1013B0



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Document number: R1013B0
Published: 13.05.2019

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1 Intellia DIN-RAIL Dual Isolator EMI-400

The EMI-400 DIN-rail Module (FFS06727400) provides, in one housing, two independent isolators which sense and isolate short-circuits on FX fire detection loops.

The Intellia series of products are all compatible with the ALC-board of Esmi Sense FDP and FX-panels.

The isolators are loop-powered and are polarity sensitive. A maximum of twenty detectors may be installed between isolators.

Under normal operating conditions, a low impedance is present between the two negative terminals of each isolator channel so that power and signals are passed to the next base in line.

If a short-circuit or abnormally low impedance occurs across the loop, the fall in voltage is sensed and the isolator isolates the negative supply in the direction of the fault. In this condition, the yellow LED of the affected channel will be illuminated. The isolated section of loop is tested using a current pulse every five seconds. When the short-circuit is removed the power will automatically be restored.

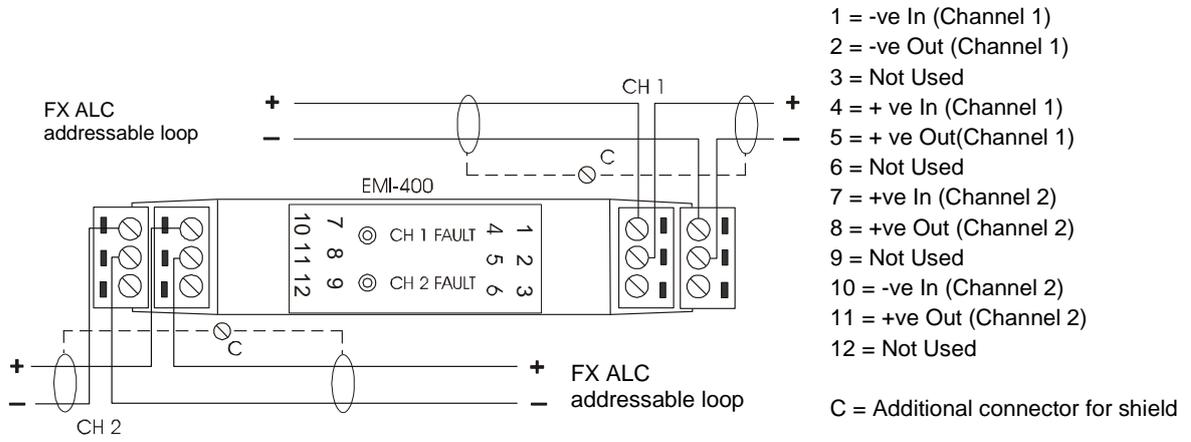
The two isolator channels are not interconnected internally and operate completely independently of one another.

The DIN-rail isolator is supplied in a standard housing which is clipped onto a standard 35 mm DIN rail (DIN 46277) or fixed directly to the enclosure using two 4 mm screws.

Connections are made via plug-in terminal blocks which accept wires up to 2,5 mm².

Two yellow LEDs – one per channel – are visible through the top cover of the enclosure. When a channel is in an isolating condition, the associated LED is illuminated continuously.

1.1 Schematic Diagram & Wiring Connections



- 1 = -ve In (Channel 1)
- 2 = -ve Out (Channel 1)
- 3 = Not Used
- 4 = + ve In (Channel 1)
- 5 = + ve Out (Channel 1)
- 6 = Not Used
- 7 = +ve In (Channel 2)
- 8 = +ve Out (Channel 2)
- 9 = Not Used
- 10 = -ve In (Channel 2)
- 11 = +ve Out (Channel 2)
- 12 = Not Used

C = Additional connector for shield

Note!
Polarity must be observed.