INPUT/OUTPUT-MODULES

Intellia Input/Output–modules for FX fire detection system

Fire protection systems can be engineered simply and effectively without the need for custom-designed equipment.

The Intellia Input/output-modules (I/O –modules) offer several features for a variety of monitoring and control functions in a FX fire detection system.

The Intellia series of products are all compatible with the FX-ALC loop controller.

Standard modules are fitted with bi-directional short - circuit isolators so that they are unaffected by a single short-circuit on either loop input or output.

Standard modules are designed to be surface or flush-mounted to walls and consist of three parts: a backbox with knockouts for cable entry, a PCB assembly and a protective front cover.

EMI-333

Three Input (parallel)/three Output (parallel) Module EMI-333 with isolator

EMI-333 module has three monitored switch contact inputs, operated as parallel, and three change-over relay contacts, controlled as parallel.

The loop connections are polarity sensitive.

The three contact Input/Output Module is supplied in an IP66 grey polycarbonate box for surface mounting. The box is mounted at its corners with access to the fixing screws through the lid attachment holes.

Ten 16 mm / 21 mm and six 22 mm / 38 mm dual diameter cable entry knockouts are provided. To preserve the integrity of the box, suitable glands should be used when terminating cables.

Ten LEDs, six red and four yellow, are fitted to the PCB. All LEDs except the isolator LED can be disabled to conserve loop current. For each channel, one red LED is illuminated to indicate that the relay is set; a second red LED is illuminated to indicate that the switch input is closed and a yellow LED is illuminated to indicate an open or short-circuit fault. A separate yellow LED is illuminated whenever the built-in isolator has sensed a short-circuit loop fault.

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Technical data

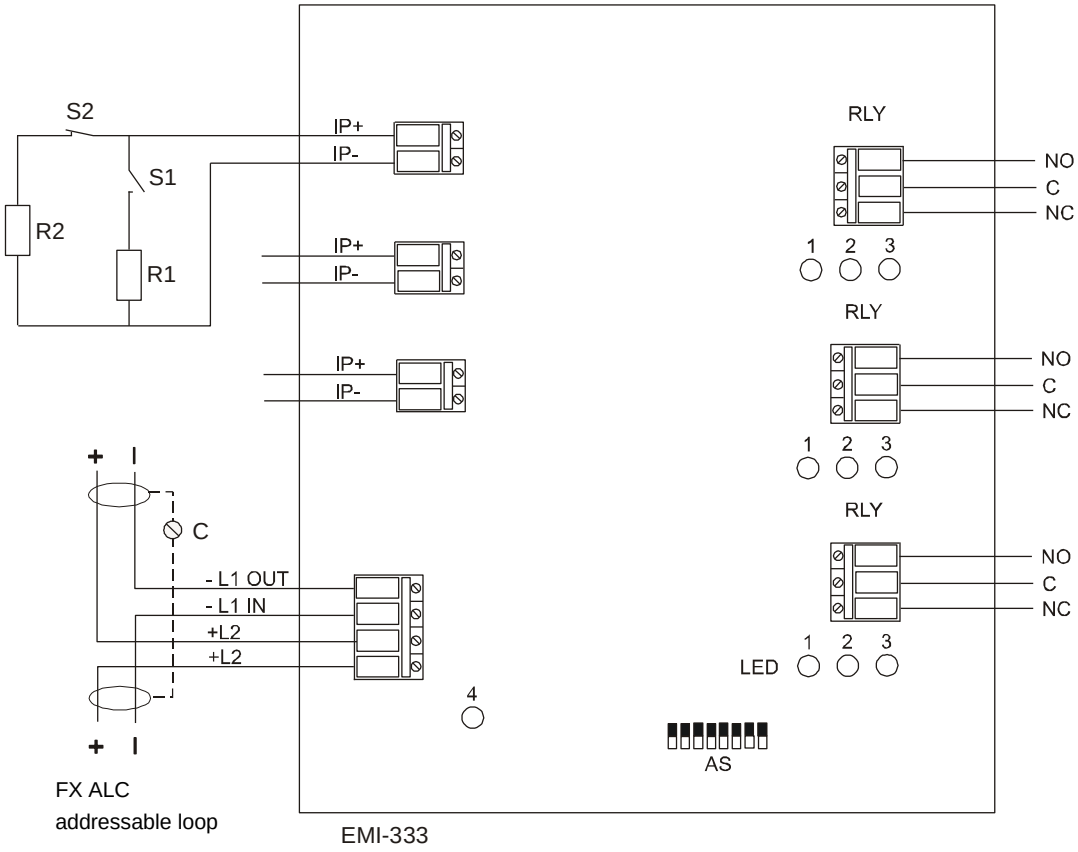
Note! All Intellia series I/O modules take 1 address from the loop, regardless how many inputs/outputs they have.

Module EMI-333	
Operating voltage (Loop voltage)	17–28 VDC
Current consumption at 24 VDC	
- Quiescent, 20kΩ EOL fitted (LEDs off)	3 mA
- LED off switch-on surge	6,5 mA
- LED off switch inputs closed	4 mA
- LED on relays operated	5,5 mA
- LED off relays operated	3,5 mA
- Worst case ie 3 switch inputs closed, 3 relays operated, 6 LEDs on	7,5 mA
Switch input monitoring voltage (open-circuit condition)	9–11 VDC
Relay output contact rating at 30V AC or DC	1 A (inductive or resistive)
On resistance (isolator)	0,2 Ω
IP Rating	IP54
Operating temperature	–20 ° to +70 °C
Humidity (no condensation)	0–95%
Dimensions	250 x 175 x 75 mm
Weight	621 g
Complies with EN89/336/EEC	
Input end of the line resistor	20 kΩ
Product code	**FFS0672 7333**

Schneider Electric reserves the right to modifications.

Schematic Diagram & Wiring Connections

EMI-333



S1 = Normally open monitoring circuit
S2 = Normally closed fault contact

R1 = 4,7 kΩ
R2 = 20 kΩ ±10 % 1/3 W

IP = Input
RLY = Relay
AS = Address switch

LEDs
1. Switch closed
2. Fault
3. Relay on
4. Isolator

C = Additional connector for shield

Note!
L1 and L2 are polarity sensitive.

Note!
Relay contacts are connected in parallel.