FX-IDC1B Analog Single Input Mini Module Installation Sheet

Operation

The FX-IDC1B Analog Single Input Mini Module is an analog addressable device used to connect a normally open, alarm, supervisory, or monitor type dry contact initiating device circuit (IDC) to a control panel. This module is designed for Class B circuit operation.

The device address is set using the two rotary switches located on the front of the module. One device address is required.

The module is factory set to operate as an alarm-latching device. When the NO contact of an initiating device is closed, an alarm signal is sent to the control panel and the alarm condition is latched at the module.

Additional device types are available through front panel programming or the configuration utility. For additional information, refer to the documents listed on the control panel label.

LEDs

The FX-IDC1B provides two status LEDs. The LEDs are visible from the back of the module.

Installation

Install and wire this device in accordance with applicable national and local codes, ordinances, and regulations.

WARNINGS

- This module does not operate without electrical power. As fires frequently cause power interruption, discuss further safeguards with the local fire protection specialist.
- This module does not support conventional two-wire smoke detectors.

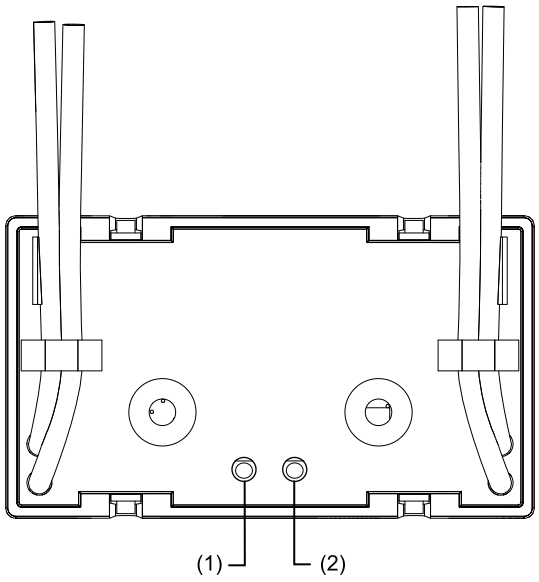
Note: The module is shipped from the factory as an assembled unit; it contains no user-serviceable parts and should not be disassembled.

To install the module:

1. Verify that all field wiring is free of opens, shorts, and ground faults.
2. Make all wiring connections as discussed in “Wiring” and shown in Figure 3.
3. Set the module address. Refer to the panel technical reference manual for a list of valid addresses.

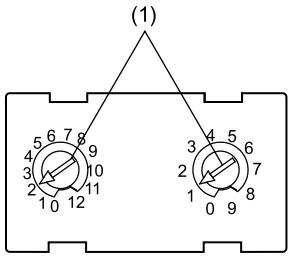
   Use a screwdriver to adjust the two rotary switches on the front of the module. Set the TENS rotary switch (0 through 12) for the 10s and 100s digit and the ONES rotary switch for the 0 through 9 digit. For example: device address 21, set TENS rotary switch to 2 and set the ONES rotary switch to 1 (see Figure 2).
4. Position the module into the electrical box, behind the device to which it connects.

Figure 1: LED location



(1) Red LED: Alarm/active (2) Green LED: Normal

Figure 2: Module address



(1) Insert screwdriver here

Wiring

Wire the device as shown in Figure 3. Be sure to observe the polarity of the wires.

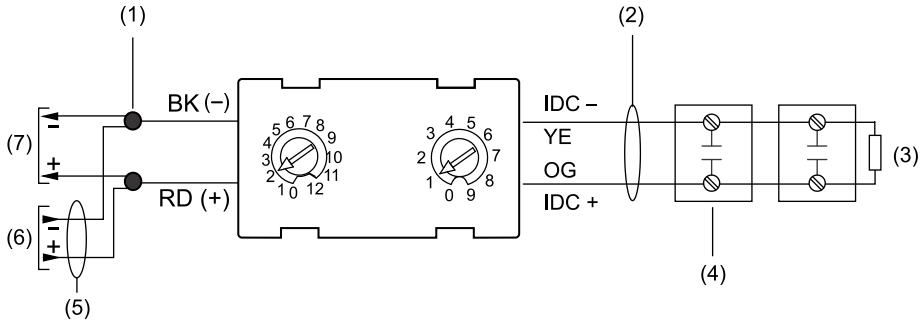
Refer to the control panel technical reference manual for wiring specifications.

All wiring is power-limited and supervised.

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Figure 3: Module wiring



(1) Wire nut or other listed splice or terminal block
(2) Class B
(3) 47 kΩ EOLR
(4) Typical normally open (NO) initiating device
(5) Class A/DCLA or Class B/DCLB
(6) Signaling line circuit (SLC) in
(7) Signaling line circuit (SLC) out

Specifications

Voltage	
IDC maximum	10 VDC at 350 µA
Communication line maximum	20.6 V peak-to-peak
Current	
Standby	350 µA
Activated	500 µA
Ground fault impedance	10 kΩ
Initiating device circuit (IDC)	
EOL resistor value	47 kΩ, (P/N EOL-47)
Circuit resistance	50 Ω (25 Ω per wire), max.
Circuit capacitance	0.1 µF, max.
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93%, noncondensing at 90°F (32°C)
Storage temperature range	–4 to 140°F (–20 to 60°C)

Contact information

For contact information, see www.kidde-esfire.com.

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