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FIK-5883 Relay Interface Board Product Installation Document

PN LS10257-001FK-E:A 03/03/2021 ECN: 151526

1 Description

The FIK-5883 is a relay interface board that has (10) general purpose Form C relays that can be used to activate the voice evacuation, elevator recall or the HVAC fan cut-off. Each relay is activated by an open collector input from a controlling device such as a FIK-5880.

1.1 Compatibility

The FIK-5883 is compatible with the Fike Series, Fire Alarm Control Panels (FACPs).



NOTE: For more information, see the FACP Installation Manual.

2 Mounting

Mount the cabinet as shown in Figure 1. Install the FIK-5883 circuit board as shown in Figure 2.

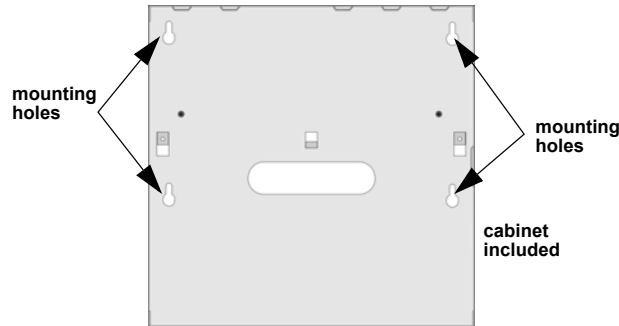


Figure 1 Cabinet Installation

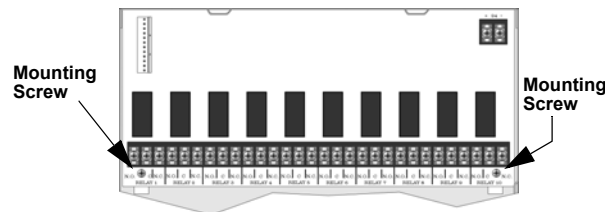


Figure 2 Circuit Board Mounting

3 Wiring



NOTE: The installation and wiring of this device must be done in accordance with the NFPA 72 and the local ordinances.

The following criteria are required to wire the board.

- All wiring is supervised and power-limited.
- The 1/4" spacing must be maintained between the following:
 - the high and the low voltage circuits
 - power-limited and non-power limited circuits
- When you use a combination of power-limited and non-power limited circuits, you must leave an unused relay in-between to maintain a 1/4" spacing.

Figure 3 shows an example of the wire routing.

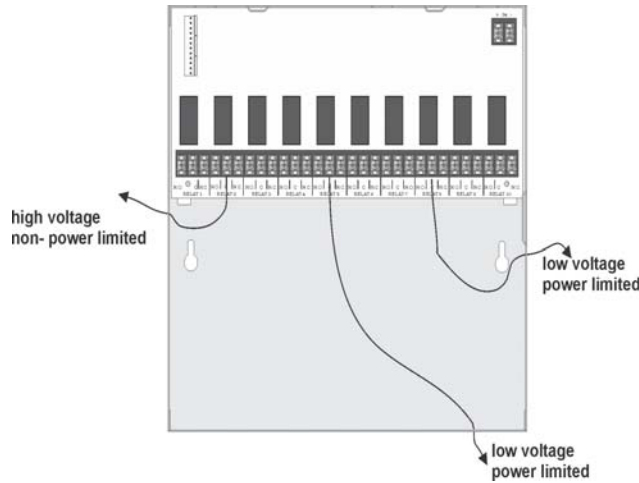


Figure 3 Wire Routing Example

3.1 Connecting the FIK-5883 to the Aux power

Connect the FIK-5883 power terminals to a 24 VDC power supply as shown in Figure 4.

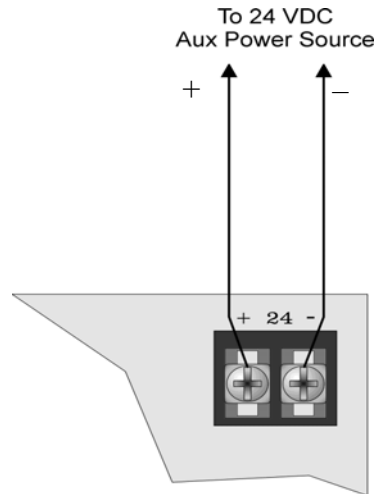


Figure 4 Auxiliary Power Connections



NOTE: The auxiliary power is supplied by a Regulated UL listed power supply for Fire Protective Signaling Systems.

3.2 Auxiliary Power Using Flexput® Circuits

The FIK-5883 can use auxiliary power from any 24 VDC source. The following steps describe how to use the Flexput circuits as the auxiliary power source.

1. Connect the auxiliary power wires to the Flexput terminals using “X” terminals as positive, and “O” terminals as negative power. See Figure 5.

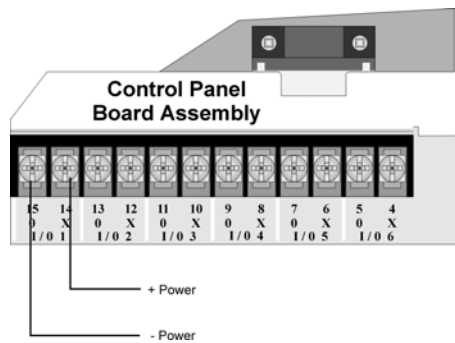


Figure 5 Flexput Auxiliary Power Output

2. Configure the auxiliary power output for the constant output through programming. Refer to the FACP Installation Manual.

3.3 12-Pin Input Connector

The FIK-5883's 12-Pin input connector (P1) plugs directly onto any of the 12-pin connectors on the FIK-5880.

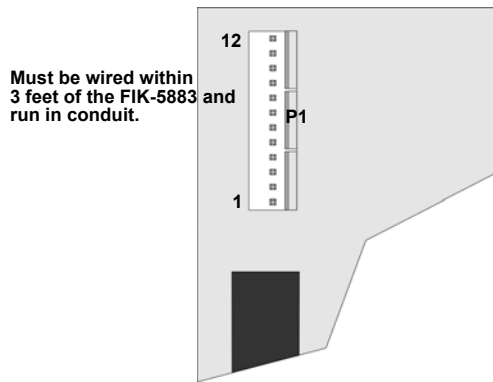


Figure 6 12-Pin Input Connector

Table 1 lists the pin-outs for the P-1 pin connector on the FIK-5883.

Pin Number	Function	Pin Number	Function
1	Trigger Relay 1	7	Trigger Relay 7
2	Trigger Relay 2	8	Trigger Relay 8
3	Trigger Relay 3	9	Trigger Relay 9
4	Trigger Relay 4	10	Trigger Relay 10
5	Trigger Relay 5	11	+5 VDC
6	Trigger Relay 6	12	Not Used

Table 1 Pin Numbers and Functions

3.4 Relay Wiring

The 10 on-board relays are all Form C relays. Figure 7 is an example that shows how the relays are wired.

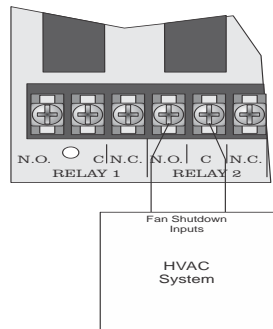


Figure 7 Relay Wiring Example

4 Specifications

- Operating Temperature: 32° - 120°F (0° - 49° C)
- Dimensions: 10 3/8" W x 10 2/8" H x 3 1/8" D
- Relay Trigger Voltage: 5VDC
- For C Relay: 5.0A @ 30VDC or 250VAC resistive
- Operating Voltage: 24VDC @ 420mA Max.
- *for indoor use only