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# FIK-5880 LED I/O Module Product Installation Document

PN LS10256-001FK-E:A 03/03/2021 ECN: 151526

## 1 Description

The FIK-5880 LED I/O Module provides a way to customize the remote annunciator when it is used with a compatible addressable fire alarm control panel (FACP).



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

## 1.1 Specifications

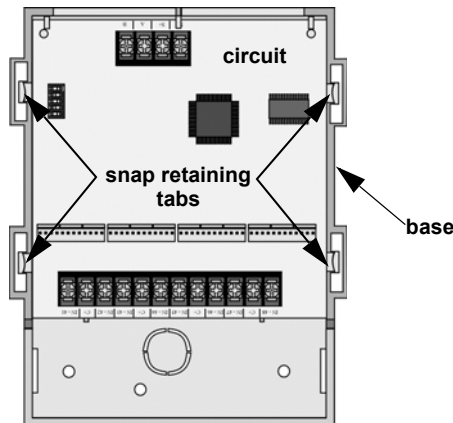
Specifications		Ratings
SBUS Operating Voltage:		24 VDC
Dry Contacts: (Loop Specs)	Maximum Loop Resistance	100 Ω
	Maximum Loop Voltage	24 VDC
	Maximum Loop Current	2 mA
Maximum Current:	Alarm	200 mA
	Standby	35 mA
	Each LED	10 mA
Open Collector PZT Maximum Sink Current:		100 mA
Operating Temperature:		32° to 120° F (0° to 49° C)
Maximum Wiring Distance from FACP:		6,000 ft (1,829 m)
Intended for Indoor Use in a Dry Location Only		

**Table 1 FIK-5880 Specifications**

## 2 Mounting the FIK-5880 Enclosure

The FIK-5880 is encased in a plastic enclosure which must be mounted inside the annunciator or the accessory cabinet. To mount the FIK-5880 plastic enclosure into the appropriate cabinet, do the following steps.

1. Remove the FIK-5880 cover. Use a small screwdriver, if necessary.
2. To remove the FIK-5880 circuit board from the base, push outward on the base snap retaining tabs and lift-out the circuit board.
3. Mount the plastic base into the appropriate accessory cabinet.



**Figure 1 Circuit Board and Plastic Base**

4. Replace the circuit board in the plastic base.



**NOTE:** It may be necessary to connect the wiring to the circuit board before the board is replaced into the base.

### 3 Wiring the FIK-5880 to the FACP

Terminate the wiring as shown in Figure 2 and Table 2.



**NOTE:** Note that the wiring connections are supervised and power-limited.

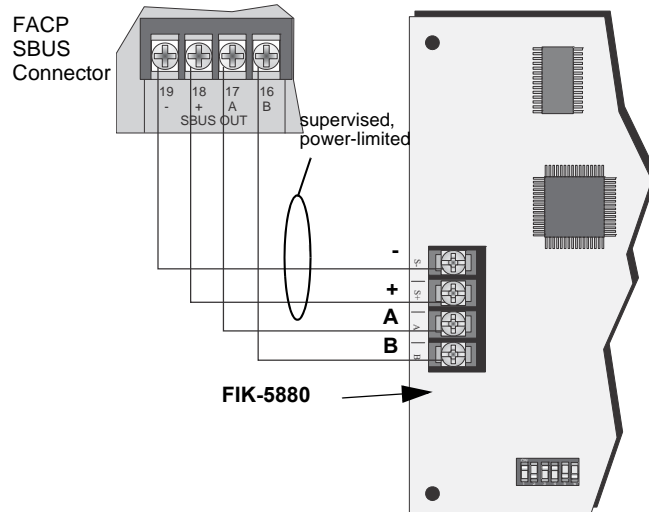


Figure 2 FIK-5880 Connection to the FACP

FIK-5880 Terminals	FACP Terminals (Connector)
B	B
A	A
S+	+
S-	-

Table 2 FIK-5880 to the FACP Connections

#### 3.1 Wiring the LED Outputs

The FIK-5880 has four 12-pin connectors (P/N 130092) used to connect the LEDs. All LED outputs use a common pin on each connector for the LED power (see figure below). The current is limited through each output so that no series resistor is required.

On Connector P1, Pin-12 is an open collector output used for controlling a piezo (PZT) output. This output matches the piezo output pattern of the FACP on-board annunciator. Wire the LED outputs as shown in Figure 3. Note that the Connectors P3 and P4 are wired the same as Connector P2..

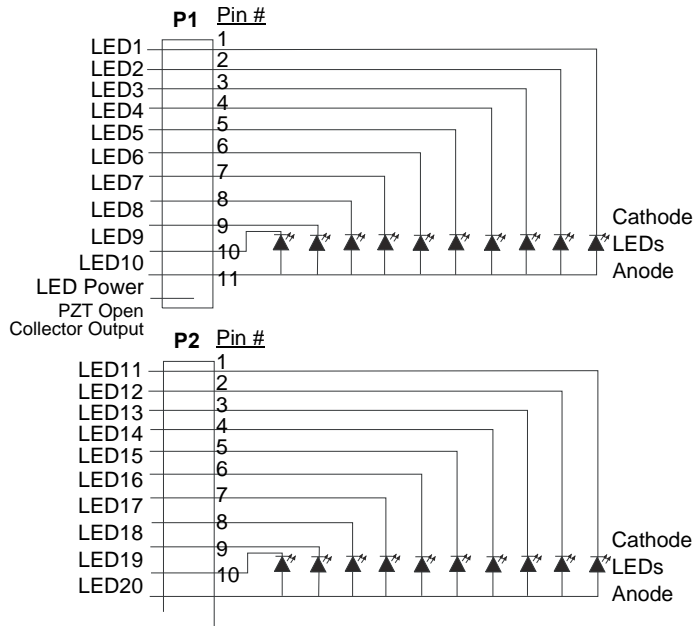


Figure 3 FIK-5880 LED Outputs

## 3.2 Dry Contact Wiring

The FIK-5880 has eight input circuits used to monitor the switch inputs such as the following.

- pull stations
- water flow
- tamper
- reset
- silence type switches

Wire the contacts as shown in Figure 4. Note that all inputs are supervised and power-limited.

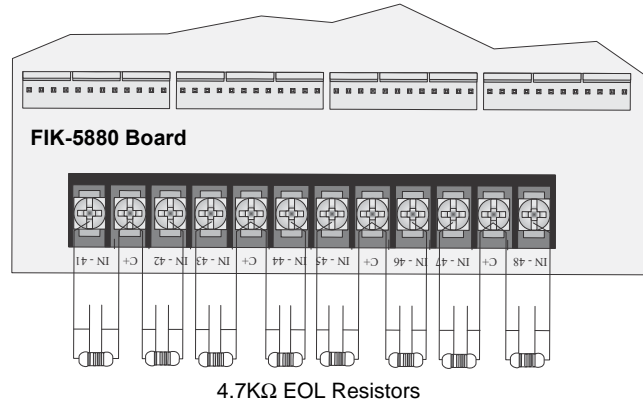


Figure 4 Dry Contact Wiring

## 3.3 Setting the DIP Switches

Each FIK-5880 requires a unique ID number which is set using the DIP switches on the FIK-5880 circuit board. Figure 5 shows the DIP switch settings. Note that address 0 is invalid and cannot be used.

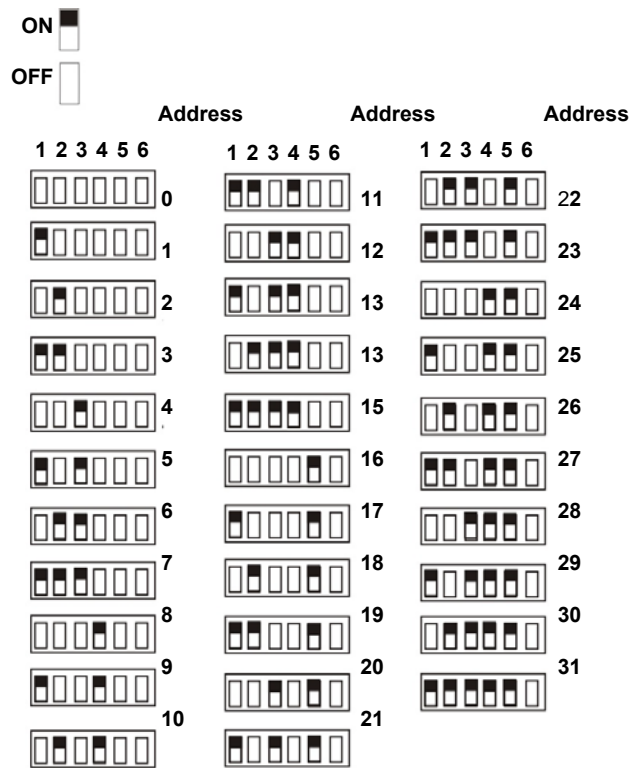


Figure 5 DIP Switch Settings