SILENT KNIGHT

by Honeywell

5880 LED I/O Module Installation Instructions

The 5880 provides a way to customize your remote annunciator when used with a compatible addressable fire alarm control panel (FACP). For more detailed information, refer to the FACP installation manual.

Note: *Installation and wiring of this device must be done in accordance with NFPA 72 and local ordinances.*

Specifications

Table 1: 5880 Specifications

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

Mounting the 5880 Enclosure

The 5880 comes in a plastic enclosure which must be mounted inside the annunciator or accessory cabinet.

To mount the 5880 plastic enclosure into the appropriate cabinet:

1. Remove the 5880 cover. Use a small screw driver if necessary.

2. Remove the 5880 circuit board from the base by pushing outward on the base snap retaining tabs and lifting the circuit board out.
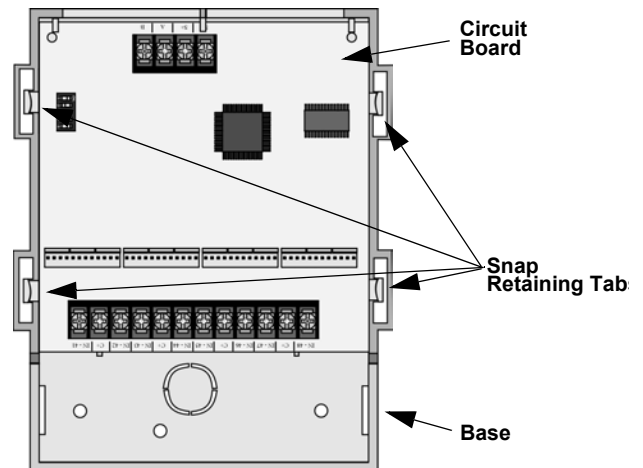

Figure 1: 5880 Circuit Board And Plastic Base

3. Mount the plastic base into the appropriate accessory cabinet.

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.*

Wiring the 5880 to the FACP

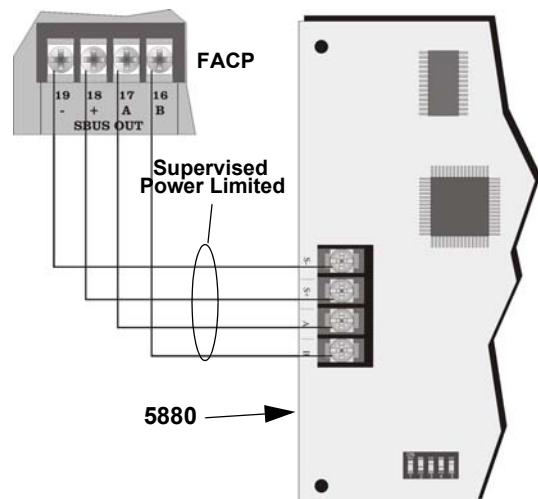Terminate the wiring as shown in Figure 2 and Table 2.

Figure 2: 5880 Connection to the FACP

Table 2: 5880 to FACP Connections

5880 Terminals	FACP Terminals
B	B
A	A
S+	+
S-	- (or GND)

Wiring the LED Outputs

The 5880 has four 12-pin connectors (P/N 130092) used to connect LEDs. All LED outputs use a common pin on each connector for LED power (see Figure 3). Current is limited through each output so no series resistor is required.

On connector P1, pin 12 is an open collector output for controlling a piezo (PZT) output. This output matches the piezo output pattern of the FACP on-board annunciator.

Note: *The open collector PZT output does not have a built-in current limiting resistor, one is required to limit the max. sink current (see Specifications for max sink current). The PZT output is not mappable.*
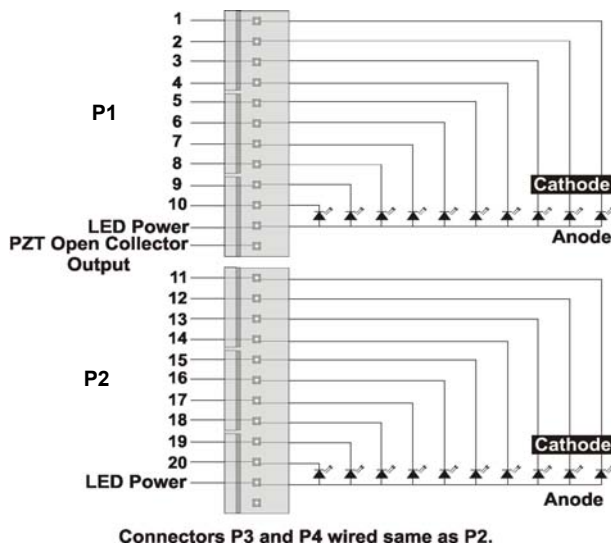
Wire the LED outputs as shown in Figure 3.

Figure 3: 5880 LED Outputs

Dry Contact Wiring

The 5880 has eight input circuits used to monitor switch inputs such as pull stations, water flow, tamper, reset, or silence type switches. Wire contacts as shown in Figure 4.
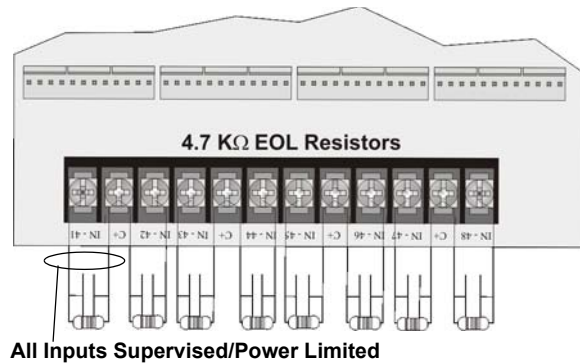

Figure 4: Dry Contact Wiring

Setting DIP Switches

Each 5880 requires a unique ID number which is set using the DIP switches on the 5880 circuit board. See Figure 5 for DIP switch settings.
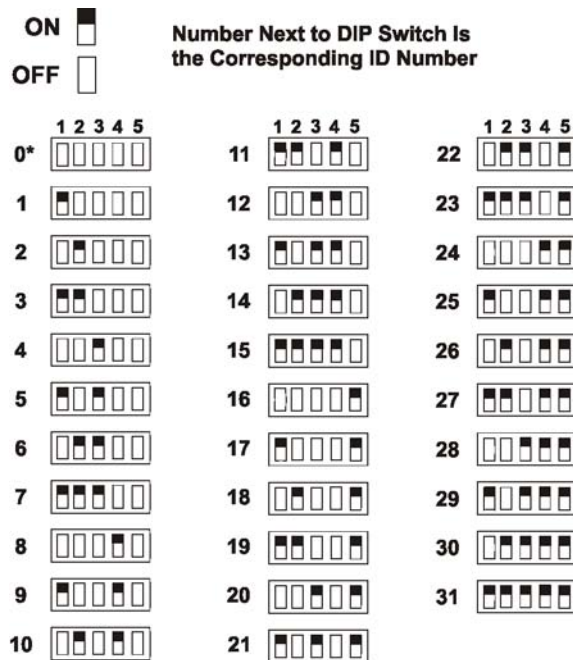

*Note: Address 0 cannot be used.

Figure 5: DIP Switch Settings

SILENT KNIGHT

by Honeywell