



**SILENT
KNIGHT**

by Honeywell

SD500-LED LED Driver Module Installation Instructions

The following are instructions on how to install, and connect the SD500-LED to a Silent Knight Addressable control panel.

The SD500-LED is a LED driver module capable of driving 80 LEDs which connects to the SLC loop on a Silent Knight addressable control panel.

Up to 40 SD500-LED modules can be used per SLC loop with a maximum of 100 SD500-LED modules per system.

Specifications

Circuit/Parameter		Value
Aux. Power Max. Current:	Alarm:	220 mA
	Standby:	10 mA
	LED:	10 mA
SLC Max. Current:	Alarm:	.55 mA
	Standby:	.55 mA
Operating Temperature:		0° to 49° C (32° to 120° F)
Indoor use only		

Mounting Instructions

This section contain instruction on how to mount the SD500-LED's cabinet and how to insert the SD500-LED control board.

Follow these steps to mount the cabinet:

1. Remove the control board from the cabinet. See caution notice. See also Figure 2.
2. Mount cabinet as shown in Figure 1.
3. Re-install the control board. See Figure 2.

Caution!

Many of the circuit board components are extremely sensitive to static electricity. The following procedures reduce the possibility of damaging components with static electricity:

1. Before handling the circuit board in any way, discharge your body's static electric charge by touching a grounded surface. Wear a grounding wrist strap if one is available.
2. Do not remove parts from their antistatic containers or bags until you are ready to install them. When removing a circuit board from a cabinet, immediately place it in an antistatic bag or container.
3. When handling a circuit board, hold it by its edges, and avoid touching the circuitry.
4. Do not slide circuit boards over any surface.
5. Avoid having plastic, vinyl, and foam in your work area.
6. Limiting your movement during installation and/or removal reduces static electricity.

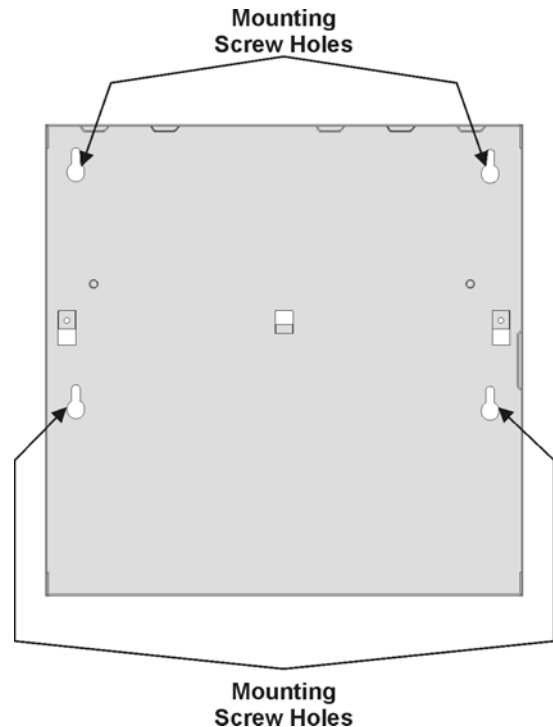


Figure 1: Cabinet Mounting

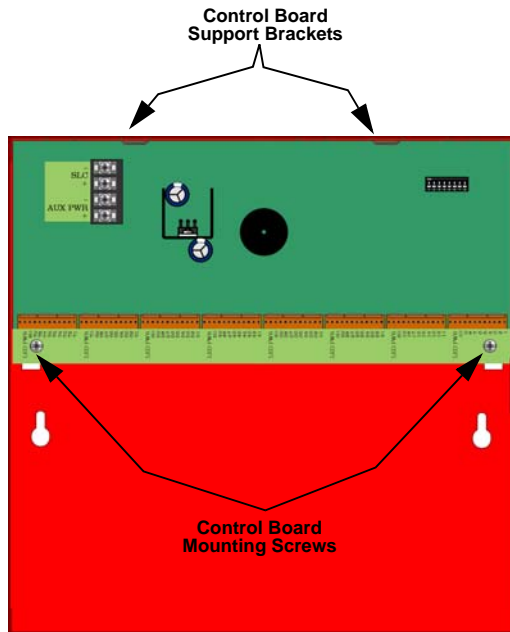
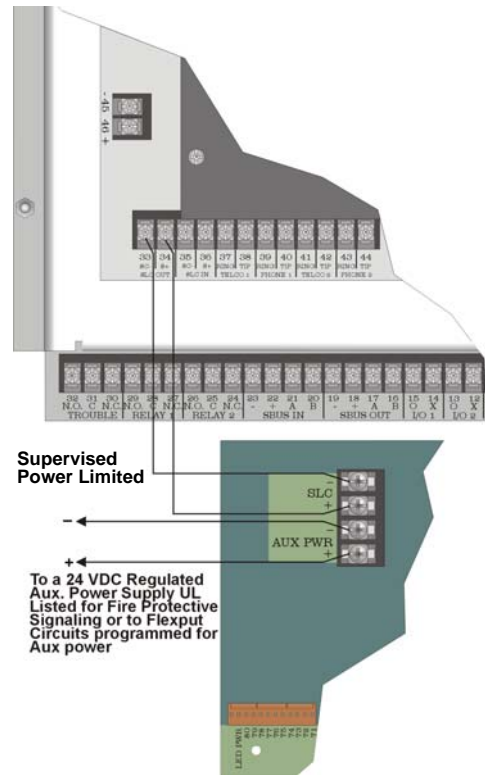


Figure 2: Control Board Installation



Wiring Instructions

This section contains information on how to connect the SD500-LED to the main control panel and how to wire the LED outputs.

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

Connecting the SD500-LED to the Main Control Panel

Terminate the wiring as Described in Table 1. See also Fig.

Table 1: Wire Termination

SD500-LED Terminals	Main Control Panel	
	Terminal	Label
SLC -	33	SC-
SLC +	34	SC+

Auxiliary Power Using Flexput™ Circuits

The SD500-LED can use aux power from any 24 VDC source. The following describes how to use the Flexput circuits as the auxiliary power source:

1. Connect the aux power wires to the Flexput terminals using “X” terminals as positive and “O” terminals as negative power. See Figure 3.

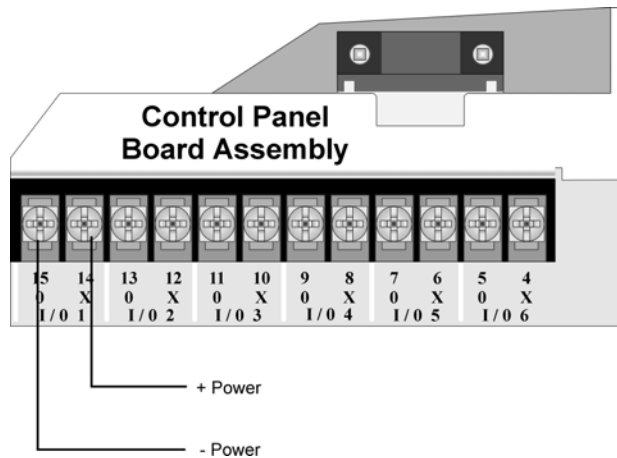


Figure 3: Flexput Auxiliary Power Output

2. Configure the auxiliary power output for constant output through programming. Refer to the control panel installation manual (P/Ns 151139 & 151209).

LED Wiring

The SD500-LED has eight 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 4). Current is limited through each output so no series resistor is required.

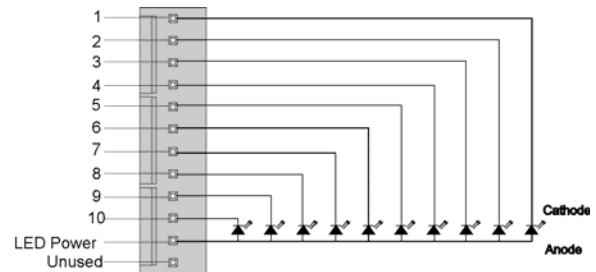


Figure 4: SD500-LED's Output Wiring

Setting Module ID

Each device on a SLC loop needs a unique ID. Figure 5 illustrates the ID choices.

ON

OFF Note: Dipswitch position 8 must always be OFF.

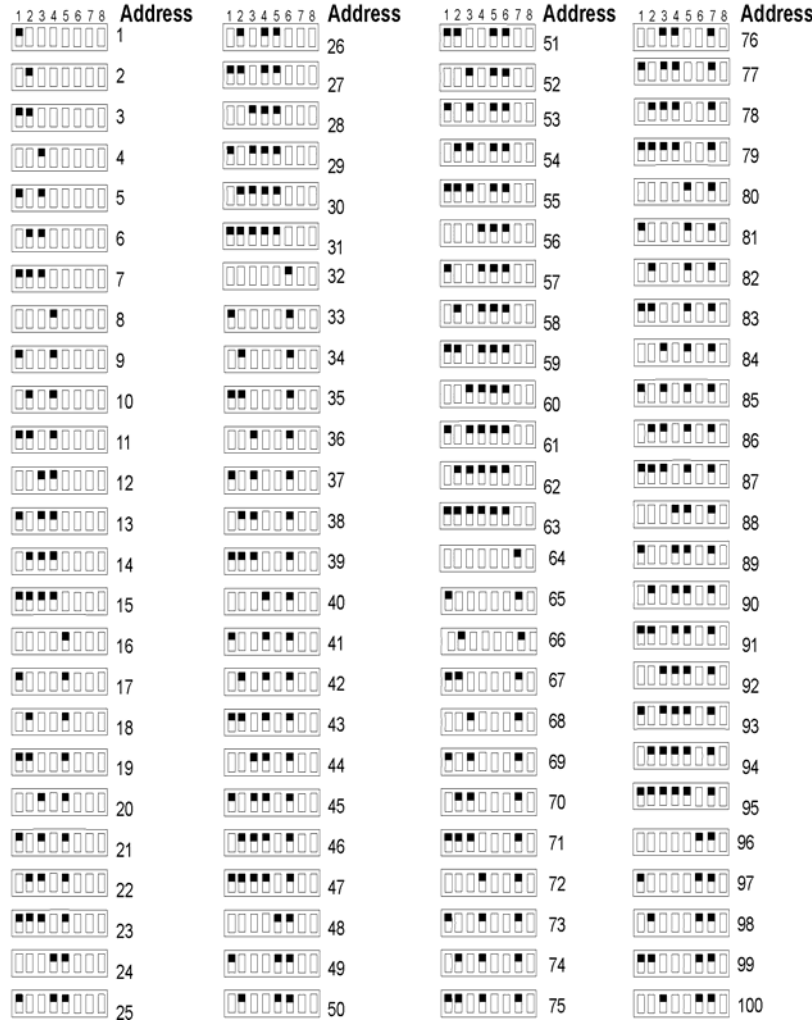


Figure 5: Module ID Settings



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