Models SLW127 and SLW127CN
Super Bright Hardwired Smart LED Strobe

Read and Save!
Use this product according to the manual. This manual includes important information regarding installation and operation. Please retain this instruction manual for future reference.

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In Canada, wiring methods detailed shall be in accordance with CSA C22.1, Canadian Electrical Code, Part 3, Safety Standard for Electrical Installations

In the USA the alarm wiring shall be in accordance with the provisions of Articles 210 and 300.3(B) of the National Electrical Code ANSI/NFPA 70. According to the NFPA 72 / Ed. 2013, paragraph 29.6.3 Household Fire Alarm Systems AC Primary Power Source: "AC primary (main) power shall be supplied either from a dedicated branch circuit or the un-switched portion of a branch circuit also used for power and lighting.”

DANGER
ELECTRICAL SHOCK HAZARD: Attempting to disconnect the power connector from the strobe when the power is on may result in electrical shock, serious injury or death.

SPECIFICATIONS

Current Draw
NOTE: Candela will determine the current draw of the product. When calculating the total currents use Table 1 to determine the highest value of RMS current for an individual appliance. Then multiply these values by the total number of appliances. Be sure to add all currents for any other appliances, including audible signaling appliances powered by the same source, and to include any required safety factors.

CAUTION: These appliances were tested to the voltage limits of 102-138VAC. Do not apply voltage outside of this range.

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WARNING! Check the minimum and maximum AC line voltages and subtract the voltage drop from the circuit wiring resistance to determine the applied voltage to the strobes. The maximum wire impedance between strobes shall not exceed 10 ohms.

WARNING! Strobes are not designed to be used on coded systems in which the applied voltage is cycled on and off.

WARNING! Make sure the total (RMS) current required by all appliances that are connected to the AC system does not exceed the rated capacity or the current ratings of any fuses on the circuits to which these appliances are wired. Overloading power sources or exceeding fuse ratings could result in fire or power and failure to alert occupants during an emergency, which could result in property damage and serious injury or death to you and/or others.

CAUTION: Do not over tighten mounting screws. Excessive torque can distort the mounting bracket and may affect operation.

WARNING! CAUTION: The strobe bracket may affect operation.

WARNING! Placing the strobe in an area with static, dust, or lint. Do not install in insect infested areas. Electrical noise may interfere with the strobe, so be sure to install more than 12 inches (305 mm) away from fluorescent lights.

WARNING! These appliances were tested to the voltage limits of 102-138VAC. Do not apply voltage outside of this range.

LOCATIONS TO AVOID
Bright light may reduce the visibility of the strobe light. Avoid direct sunlight or high ambient light areas. Installed Strobes should be at least 10 feet (3 meters) from showrooms, saunas, etc. Avoid humid, damp and steamy areas. Avoid areas with high water content, which includes bathrooms with showers. Avoid areas where the temperatures are below 40°F or above 100°F (4.4°C to 37.8°C) which includes porches, basements, unfinished attics, unheated buildings, or outdoor rooms. Avoid very dusty, dirty or greasy areas. Do not install this strobe directly over a stove or range. Be sure to clean strobe more frequently if installed in a laundry room to keep it free of dust or lint. Do not install in insect infested areas. Electrical noise may interfere with the strobe, so be sure to install more than 12 inches (305 mm) away from fluorescent lights.

Mounting Options

1. Connect field wiring to the 3-wire Quick Connector provided with this strobe.
2. Pull the connector through the large mounting bracket opening, then install the mounting bracket to the strobe and secure with the provided #8-32 x 1/2" pan head machine screws as shown in Figure 3a.
3. Insert the connector into the back box, and slip the wires back to the back box.
4. To mount the strobe on mounting bracket, twist the bracket in clockwise direction until it snaps on the mounting bracket as shown in Figure 3b.
5. To remove the strobe, twist it in counter clockwise direction. Figure 3b

NOTE: For ease of installation, electrical back box must be recessed flush with the wall surface.

IMPORTANT: Device only has one mounting orientation. LED light element should be pointed towards ground as shown below in Figure 3a

Figure 2a: Installation on 4" Octogon Electrical Box

Figure 3a: Installation on 4" Octogon Electrical Box

Figure 3b: Installation Off and Op Mounting Bracket

Light Output

Wiring Diagram and Mounting

CAUTION: The strobe bracket may affect operation.

WARNING! Placing the strobe in an area with static, dust, or lint. Do not install in insect infested areas. Electrical noise may interfere with the strobe, so be sure to install more than 12 inches (305 mm) away from fluorescent lights.

WARNING! Do not over tighten mounting screws. Excessive torque can distort the mounting bracket and may affect operation.

General
USI’s LED strobes are designed for easy installation. These models are for 120VAC operation. IMPORTANT: For wall mount installation only. Strobes are listed and approved for indoor applications only.

WARNING: Make sure these instructions carefully before using this product. Failure to comply with any of the following instructions, cautions and warnings could result in improper application, candela setting, installation and/or operation failure of the product in an emergency; which could result in property damage and serious injury or death to you and others.

WARNING: This strobe will not sense smoke, heat, gas, carbon monoxide or flame. The alarm backup battery does not provide backup power for the strobe. Replace the entire strobe if the lamp is loose or broken. Do not remove the lamp for any reason. Doing so can permanently damage the strobe and will void your warranty.

This strobe conforms to the visual signaling component requirements in 18.5.3. (Light, Color and Pulse Characteristics) of NFPA 72, "National Fire Alarm and Signaling Code."
**Flash Patterns**

There are 3 distinct flashing modes triggered by the interconnected alarm: Smoke, Carbon Monoxide (CO) and Natural Gas. Smoke or Heat = Steady Flash Every Second. CO = 4 Quick Flashes, 2 Second Pause. Repeating. Natural Gas = Steady Flash Every 2 Seconds. These unique flash patterns are intended to help a hearing-impaired person better distinguish the type of alarm danger signal. NFPA 72 (2016) §§0.3.7 and §5.5.3.1 requires flash patterns between 1 Hz - 2 Hz. The flash rate of the natural gas hazard is less than 1 Hz, approximately 0.5 Hz.

**Warning:** This product is not a synchronized visual notification device. If more than one (1) device is located in a given sight area, these visual notification devices may cause seizures when activated for occupants who are prone to photosensitive epilepsy. Refer to the Epilepsy Foundation at [HYPERLINK “http://www.epilepsy.com”](http://www.epilepsy.com) to learn more about photosensitivity triggers.

**Interconnection & Compatibility**

Interconnected alarms can provide earlier warning than stand-alone alarms, especially if a hazard occurs in a remote area of the dwelling. When alarms are interconnected, all alarms will sound when the initiating alarm sounds, providing more time to escape safely.

This strobe may be interconnected with a total of not more than 24 compatible devices, i.e., as many as 12 USI Electric smoke alarms or smoke + carbon monoxide combination alarms or smoke + carbon monoxide + natural gas alarms which may be a combination of USI Electric CO alarms and heat alarms, plus 6 other initiating devices such as USI Electric strobes or relay modules.

**For the USA Models:**

This device can be interconnected with the following compatible alarms and devices:
- MDSCN111
- MDS109
- MDS022W
- MDS022W
- MP116S
- MP116S
- MPC122S
- SLW127
- USI-1204
- USI-340
- USI-760
- MI106S
- MICN109S
- MI107
- MI117
- MI950
- MI951
- MI955
- MI959
- MI959
- SLW127

**For the Canada Models:**

This device can be interconnected with the following compatible alarms and devices:
- MDSCN111CN
- MDS109CN
- MDS022W
- MDS022W
- MP116S
- MP116S
- MPC122S
- SLW127

When any one of these interconnected models goes into alarm, it will trigger the corresponding alarm within the interconnected system with respect to its sensing capabilities. Examples: Smoke alarms trigger other smoke alarms. Heat alarm trigger other heat alarms and smoke alarms. CO alarms trigger other CO alarms. Gas alarms trigger other gas alarms. Interconnected strobes will flash the appropriate pattern when the alarm triggers.

**Note:** The yellow wire is used only for interconnected (multiple station operation) USI Electric model strobes. Connecting this yellow wire to any other circuits may result in damage to the device and malfunction. All interconnected alarms must be powered from a single circuit. If more than one (1) device is located in a given sight area in an interconnected system, the maximum wire run distance between the first and last alarm/device in an interconnected system is 1,000 feet. The resistance of the interconnect wiring shall be a maximum of 10 ohms. Interconnected alarms shall be within a single residence only.

**FCC Notice**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.