

LED Strobe Lights

Installation Manual



SL-1301-SAQ shown



Model	Voltage	LEDs	Flash	Backup Battery	Siren
SL-1301-EAQ/x†	9~15 VDC	8	Strobe, 120 times/min	No	No
SL-1301-BAQ/x*	9~24 VAC/VDC	26‡	Custom, 80~260 times/min	Yes	No
SL-1301-SAQ/x*	9~24 VAC/VDC	41‡	Custom, 80~260 times/min	Yes	Yes

*EAQ series is not CE certified. †Replace "x" with the first letter of the desired lens color—clear, amber, blue, green, or red.
‡New, ultra-high-intensity LEDs

- Uses high-intensity LEDs providing over 50,000 hours (over 5.7 years) operating life
- Same size as the SL-126Q strobe light
- Simple 2-wire installation with reverse polarity protection
- 5 lens colors available for each model
- High-impact resistant case and high-impact, heat-resistant lens
- Visible in all directions
- Weatherproof or weather-resistant (depending on model) when properly installed

BAQ series includes all the above features, plus:

- Ultra-high-intensity LEDs, 5 Vertical LED strips (26 LEDs total) for greater brightness/visiblty
- 8 Different flashing patterns and adjustable duty cycle
- Adjustable flashing speed (80~260 times/min)
- Backup battery available for continuous lighting applications

SAQ series includes all features of the BAQ series, plus:

- Ultra-high-intensity LEDs, 10 Vertical LED strips (41 LEDs total) for even greater brightness
- Built-in 100dB siren (programmable)

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Parts List

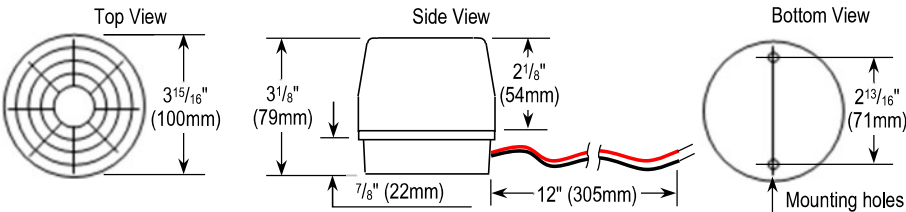
1x LED Strobe light 1x Adhesive gasket* 2x Mounting screws with "O" rings 1x Manual
*SL-1301-EAQ only

Specifications

Model		SL-1301-EAQ	SL-1301-BAQ	SL-1301-SAQ
Vertical LED strips		0	5	10
Total number of LEDs		8	26	41
LED Type		High intensity	Ultra-high intensity	
Operating voltage		9~15 VDC	9~24 VAC/VDC	
Current draw @12VDC (max.)	Rotate clockwise	N/A*	100mA	200mA†
	Strobe	500mA	450mA	720mA†
	Steady ON	N/A*	450mA	720mA†
	Flash with progressive ON	N/A*	450mA	720mA†
	Rotate back and forth	N/A*	100mA	200mA†
	Flash, progressive ON/OFF	N/A*	450mA	720mA†
Adjustable flash pattern		No*	Yes	
Number of flash patterns		1*	8	
Flashing speed	Maximum (±15%)	Fixed 120 times/min	260 Times/min	
	Minimum (±15%)		80 Times/min	
Operating life		Over 50,000 hours (over 5.7 years)		
Backup battery function‡		No	Yes	
Backup battery life‡	Steady ON	N/A	Up to 1 hour§	Up to 45 mins§
	Strobe/flashings		Up to 3 hours§	Up to 1.5 hours§
Built-in siren		No	Yes (100dB@1m)	
Electrical protection		Reverse polarity protection		
IP Rating (when properly installed)**		IP64 weather-resistant	IP66 weatherproof	IP55 weatherproof
Operating humidity		Up to 85% relative humidity		
Operating temperature		-4°~144° F (-20°~65° C)		
Material	Base	High-impact- resistant black ABS		
	Lens	High-impact-, heat-resistant acrylic		
Dimensions		ø3 ¹⁵ / ₁₆ "x3 ¹ / ₈ " (ø100x79 mm)		
Weight		7.55-oz (214g)	8.25-oz (234g)	8.9-oz (252g)

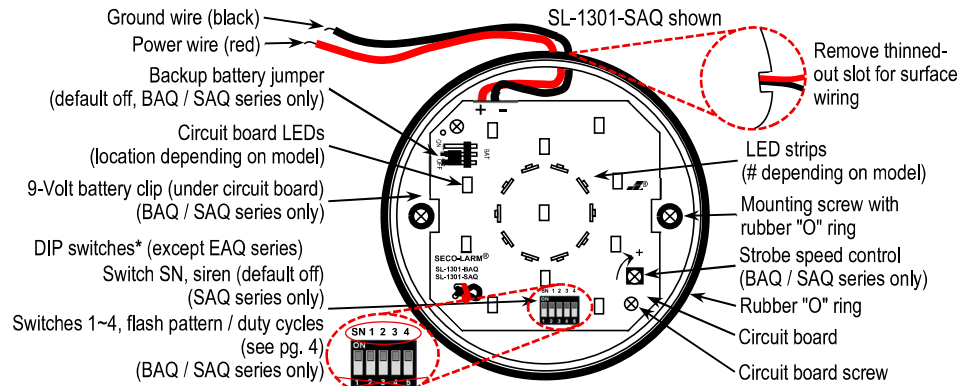
*SL-1301-EAQ series has strobe only †With siren enabled ‡9VDC battery not included §Estimated, depending on mode
**For increased weather resistance, apply a bead of silicone sealant around the base before mounting.

Dimensions



NOTE: Be sure to use the LED strobe light within the given electrical limits.

Overview



*Ignore numbers on the switch for SAQ. Use only the labels on the PCB "SN 1 2 3 4" for programming the DIP Switches.

Installation

Before starting, read the entire manual carefully and keep it for future reference.

1. Unscrew the strobe light lens and set aside.
2. For direct mounting to a flat surface:
 - a. Using the base as a template, mark the mounting and wiring holes. Drill two 1/16" (2.3mm) mounting holes.
 - b. For concealed wiring, drill a hole large enough for wires and connectors to pass through without coming loose. For surface wiring, remove the thinned-out slot with pliers (see Overview, above). Skip to step 4.
3. For mounting to ENFORCER conduit box/conduit drop (screws and gasket supplied with conduit box/drop):
 - a. Thread the wires from the conduit through the adapter plate supplied with the conduit box/drop.
 - b. Attach the plate using the short screws. Thread wires through the gasket.
4. Connect the wires, red to positive, black to negative.
5. Mount the base with the included long screws with rubber "O" rings, taking care not to crimp the wires. *If screws are fastened too tightly, the "O" rings will be damaged.* (SL-1301-EAQ series skip to step 9)
6. Select flash pattern / duty cycle with DIP Switches (see Configuring Flash Pattern / Duty Cycle, pg. 4). Adjust rate with the Strobe Speed Control (clockwise increases, counterclockwise decreases, see Overview above).
7. Set the siren (SL-1301-SAQ only) to on or off using DIP switch SN (default – OFF, see Overview, above).
8. If desired, install a backup battery. (See Installing the Backup Battery, below).
9. Replace the lens. If the lens is fastened too tightly, the "O" ring will be damaged.

Installing the Backup Battery

For continuous lighting applications, the backup battery will power the LED strobe light in the event of power loss.

1. Remove the circuit board screws and flip the circuit board over. The battery holder is attached to the back.
2. Connect a 9-volt battery (not included) to the battery connector (rechargeable batteries not supported).
3. Replace the circuit board and screws and move the backup battery jumper to the ON position.

Troubleshooting

The LED strobe light does not turn on	• Check the LED strobe light's power source.
The LED strobe light does not flash correctly	• Disconnect power, configure flash pattern, and reconnect power.

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Configuring Flash Pattern / Duty Cycle (SL-1301-BAQ / SL-1301-SAQ only)

Flash patterns and duty cycles (flash patterns 1, 2, and 5 only) are customizable. The "One-Eighth Duty Cycle" produces a sharper "strobe" more like traditional strobes. DIP Switch #4 controls the duty cycle (if supported). Visit www.seco-larm.com for a flash patterns / duty cycle demonstration.

IMPORTANT: Before changing DIP switches, disconnect power. Reconnect after setting switches.

NOTE: The numbers below refer to those on the PCB, **NOT** on the switch. The BAQ series has no SN switch.

	DIP Switch Position	Description	Flash Pattern Top View (SL-1301-BAQ Shown)
A		Regular Duty Cycle LED on one-half / off one-half of each cycle (default) (Switch #4 ON, only effective for flash patterns 1, 2, and 5)	
B		One-Eighth Duty Cycle LED on one-eighth / off seven-eighths of each cycle (Switch #4 OFF, only effective for flash patterns 1, 2, and 5)	
1		Strobe LEDs flash on and off continuously. (default) (Switch #4 controls the duty cycle)	
2		Rotate Clockwise Light rotates clockwise in a circular fashion continuously (beacon). (Switch #4 controls the duty cycle)	
3		Steady ON All LEDs stay on. Ideal for continuous lighting applications.	
4		Flash with Progressive ON LEDs turn on progressively clockwise until all LEDs are lit (sweep) and then turn off.	
5		Rotate Back and Forth LED groups light up one at a time clockwise then counterclockwise. (Switch #4 controls the duty cycle)	
6		Flash with Progressive ON/OFF LEDs turn on progressively clockwise (sweep), then turn off progressively counterclockwise.	
7		Opposite Quarters Flashing Continuously LEDs in opposite quarters flash alternately, repeating continuously.	
8		Opposite Quarters Flashing with Pause LEDs in opposite quarters flash alternately for 8 cycles, pause for 2 cycles, and then repeat the pattern.	

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