

Knight Series® FC-40 Power and Temperature Alarm System

Overview:

The FC-40 monitors power and temperature information on the panel and dry contacts that connect to audible and strobe alarms. The FC-40 is ideal for applications where there is a risk of freezing temperatures.

Features:

- UL Listed for the United States and Canada
- System indicates in the event of temperature below specified temperature or power loss
- Complete panel remote monitoring dry contacts (below 40°F, low level or power loss) that are able to connect to audible alarm and strobe light
- Temperature monitoring LCD display with adjustable alarm settings
- Includes stainless steel temperature sensor
- Battery backup in the event of power loss
- Panel enclosure: NEMA 4X polycarbonate enclosure with clear front and lockable latch
- System has adjustable temperature set points



Applications:

- Cisterns/Tanks
- Fire sprinkler systems
- Applications that require level and temperature monitoring
- Above and below ground containment tanks



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ENFORCER®

LED Strobe Lights Manual



(SL-1301-SAQ shown)



Color \ LEDs	6 LED	32 LED	54 LED
Red	SL-1301-EAQ/R	SL-1301-BAQ/R	SL-1301-SAQ/R*
Blue	SL-1301-EAQ/B	SL-1301-BAQ/B	SL-1301-SAQ/B*
Amber	SL-1301-EAQ/A	SL-1301-BAQ/A	SL-1301-SAQ/A*
Clear	SL-1301-EAQ/C	SL-1301-BAQ/C	SL-1301-SAQ/C*
Green	SL-1301-EAQ/G	SL-1301-BAQ/G	SL-1301-SAQ/G*

*Includes a built-in 100dB siren

All Models:

- Utilizes high-intensity LEDs
- Operating life of over 50,000 hours (over 5.7 years)
- Same size as the SL-126Q strobe light
- Simple 2-wire installation
- 5 lens colors available for each model
- Weather resistant
- High-impact resistant case
- High-impact and heat-resistant lens
- Reverse polarity protection
- Visible in all directions

BAQ series includes all features of the EAQ plus:

- 5 Vertical LED strips (32 LEDs total) increase visibility from various directions
- 8 Different flashing patterns and adjustable duty cycle
- Adjustable flashing speed
- Backup battery available for continuous lighting applications

SAQ series includes all features of the BAQ plus:

- 10 Vertical LED strips (54 LEDs total)
- Built-in 100dB siren (programmable)

ENFORCER LED Strobe Lights

Introduction:

ENFORCER LED Strobe Lights provide all the functions of a regular strobe light and much more. Each has an operating life of 50,000 hours—over 160 times that of a regular strobe light. No more bulbs to replace! There are three models—with 6–54 LEDs. The BAQ series and SAQ series include a unique placement of LEDs making the light more visible from various directions, a 9V backup battery option making them ideal for continuous lighting applications, and 8 selectable strobe patterns, adjustable duty cycle, and adjustable strobe speed. The SAQ series also includes a built-in 100db siren.

Parts List:

1x LED Strobe Light 1x Adhesive gasket* 2x Mounting Screw 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		6	32	54
Operating voltage		9~15 VDC	9~24 VAC/VDC	
Current drain @12VDC (max)	Rotate clockwise	N/A*	70mA	90mA†
	Strobe	150mA	350mA	550mA†
	Steady ON	N/A*	350mA	550mA†
	Flash with progressive ON	N/A*	350mA	550mA†
	Rotate back and forth	N/A*	70mA	90mA†
	Flash with progressive ON/OFF	N/A*	350mA	550mA†
Adjustable flash pattern		No*	Yes	
# of flash patterns		1*	8	
Adjustable flashing speed	Maximum setting	Fixed	260 times/min	
	Minimum setting	120 times/min	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 hours§	Up to 45min§
	Strobe/Flashing	N/A	Up to 3 hours§	Up to 1.5 hours§
Operating temperature		-4°~144° F (-20°~65° C)		
Electrical protection		Reverse polarity protected		
Built-in siren		No	Yes (100dB)	
IP rating (when installed properly)		IP64	IP66	IP55
Base		High-impact resistant black ABS		
Lens		High-impact heat-resistant acrylic		
Dimensions		ø3 ¹⁵ / ₁₆ "x3 ¹ / ₈ " (ø100x79mm)		

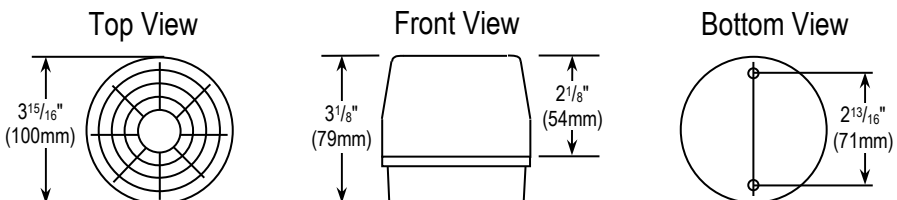
*SL-1301-EAQ series has strobe only

†With siren enabled

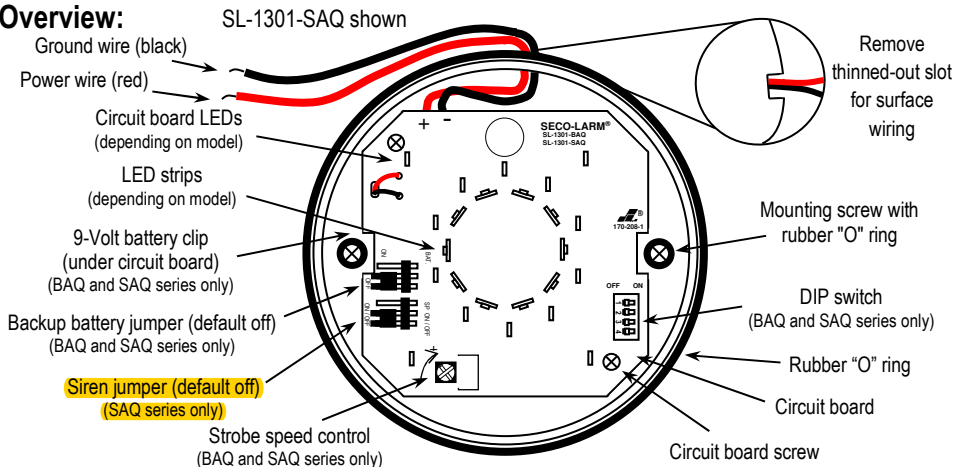
‡9VDC battery not included

§Estimated, depending on mode

Dimensions:



Overview:



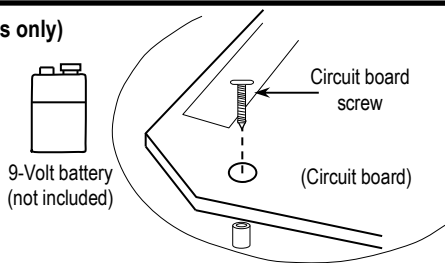
Installation:

1. Before starting, please read this manual carefully and keep it for future reference.
2. Be sure to use the LED strobe light within the given electrical limits.
3. Decide where the LED strobe light is to be mounted. Use a pencil to mark the location of the two mounting screws.
4. Drill a hole through the wall or surface where the LED strobe light is to be mounted. Run the ground (black) and power (red) wires through the wall.
Note: For surface wiring applications, remove the thinned-out slot with a pair of pliers.
5. Connect the wires to their respective locations on an alarm control panel or other security panel.
6. Remove the lens and mount the LED strobe light (with adhesive gasket for SL-1301-EAQ) to the surface using the two included mounting screws with rubber "O" rings. **If screws are fastened too tightly, the "O" rings will be damaged.** (SL-1301-EAQ series skip to step 10)
7. Select the flash pattern and flash duty cycle using the DIP Switch (see back page for details) and adjust the speed using the strobe speed control (clockwise to increase, counterclockwise to decrease).
8. Set the siren (SL-1301-SAQ only) to on or off using the siren jumper.
9. If needed, install backup battery. (See below.)
10. Replace lens. **If lens is fastened too tightly, the "O" ring will be damaged.**

Backup Battery (SL-1301 BAQ/SL-1301-SAQ series only)

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

1. Use a screwdriver to loosen the circuit board screws.
2. Carefully remove and flip the circuit board. The battery holder is attached at the back side of the circuit board.
3. Connect a 9-Volt battery to the battery connector.
4. Replace circuit board and circuit board screws.
5. Turn the backup battery on via the backup battery jumper.



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 correct flash pattern, and reconnect power


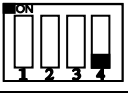
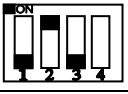
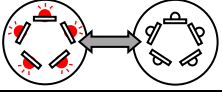
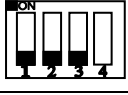









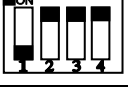
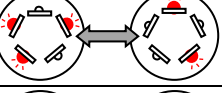

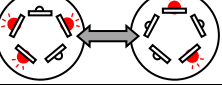
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ENFORCER LED Strobe Lights

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

IMPORTANT: Before changing DIP switch, disconnect power. Reconnect power after switches are set.

Users may customize both flash pattern and duty cycle (flash patterns 1, 2, and 5 only). The "One-Eighth Duty Cycle" produces a sharper "strobe" effect more like traditional strobe lights. DIP Switch #4 controls the duty cycle for supported flash patterns. Visit www.seco-larm.com for a demonstration of flash patterns / duty cycle.

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) (DIP 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 (DIP Switch #4 OFF, only effective for flash patterns 1, 2, and 5)	
1 	Strobe LEDs flash on and off continuously. (default) (DIP Switch #4 controls the duty cycle)	
2 	Rotate Clockwise Light rotates clockwise in a circular fashion continuously. (Beacon) (DIP 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. (DIP 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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SECO-LARM® U.S.A., Inc.

16842 Millikan Avenue, Irvine, CA 92606
Phone: (949) 261-2999 | (800) 662-0800

Website: www.seco-larm.com
Email: sales@seco-larm.com

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