S-1000/1050
LED Beacon/Strobe

Configuration & Operation

User Guide

Code Blue®

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2 Introduction

Thank you for choosing the Code Blue S-1000/1050, a high intensity and energy efficient LED Beacon/Strobe light. These lights are an integral part of our signature line of Help Points and call boxes. Highly visible lighting is a crucial component to a complete security solution. It is weatherproof and vandal resistant to withstand the harshest elements and be proactive solution for when you need it most. By saving energy, this efficient light can reduce security maintenance costs while helping to improve the environment.   With the same minimal footprint as its predecessor, retrofitting existing Help Points is easy.

This guide provides basic installation and initial setup instructions for obtaining the best performance with the S-1000/1050 LED Beacon/Strobe.
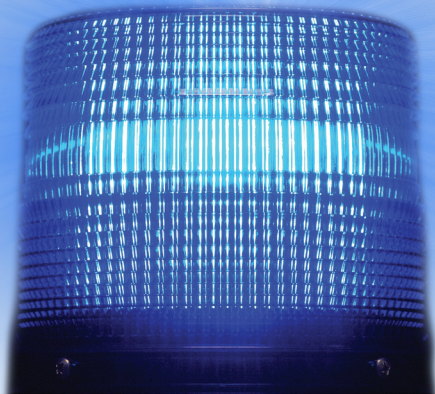
S-1000 LED Beacon/Strobe

3 Installation

The LED Beacon/Strobe assembly will be mounted either in a Code Blue Help Point, on a remote strobe bracket or on an electrical box.

2.1   Tall Pedestal (1 Series)

2.2   Tools Required

- #2 Phillips screwdriver
- Code Blue Security Bit
- Ten-foot ladder
- Volt meter
- Wire cutters
- Crimpers

The assembly is mounted to an internal bracket and placed within the unit using three 0.1875" x .25" screws.

- Remove the button head security screws and the dome top lens
- Remove the Phillips head screws to disconnect the Beacon/Strobe
- Remove the countersunk screws from the metal casting and remove the old light
- Replace with new Beacon/Strobe and tighten countersunk screws
- Secure the Beacon/Strobe with the PH screws
- Place the dome top back on and tighten screws

2.3   Installation – Remote Mount
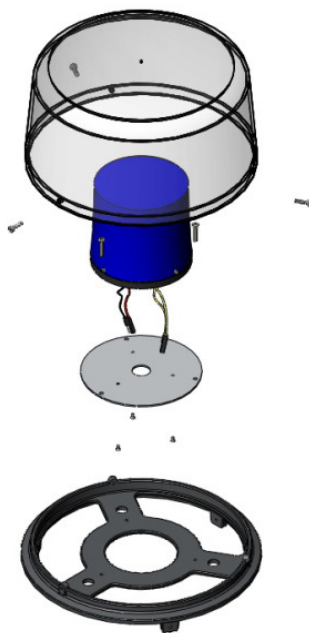
1.0   ATTACH J-BOX TO THE POLE

1.1   Thread the banding (B) through the pole bracket (A) located on the backside of the J-box (C).

1.2   Wrap the banding around the pole. Cut the banding to desired length.

1.3   Using a screwdriver or a nut driver, tighten the banding and make sure that the unit is in the desired location.

**NOTE:** J-box must be positioned so weep hole faces down.

2.0   ATTACH LIGHT TO BRACKET

3.1   Using the three M4 X 8 screws enclosed (K) fasten the strobe (J) to the round portion of the strobe bracket.

NOTE: If the beacon-strobe is mounted upside-down, a drain hole must be drilled into the lens to prevent it from filling with water.

3.0   ATTACH LIGHT AND BRACKET TO THE J-BOX

4.1   Connect all wiring from the strobe to the wiring from the unit inside of the J-box using wire nuts.

4.2   Attach strobe bracket to the J-box using four 6-32 X ½ screws as shown.
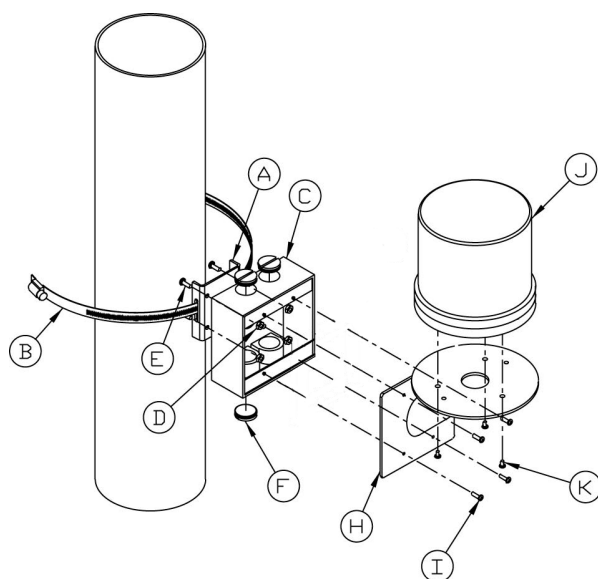
A - pole-bracket
B - banding
C - J-box
D - pole-bracket mount nut (4 each)
E - pole-bracket mount screw (4 each)
F - conduit plug
H - strobe-bracket
I   - 6-32 X ½ screws (4 each)
J - strobe light
K - M4 X 8 screws (3 each) (Low voltage)
K - 10-24 X ¾ screws (2 each) (High voltage)

All wiring must be installed and connected by experienced and certified personnel to meet local and national electrical codes, and will include a service disconnect.

4 LED Beacon/Strobe Programming

NOTE: Instructions pertain to
Model S-1000 LED Beacon/Strobe and
Model S-1050 LED Beacon/Strobe only

M3159-R/BK

RED   POSITIVE (12-24V DC or AC)

BLACK   COMMON (GROUND)

M3159-Y/Y

DRY CONTACT
CLOSED = "ON"

YELLOW   (FLASH MODE)

YELLOW   (FLASH MODE)
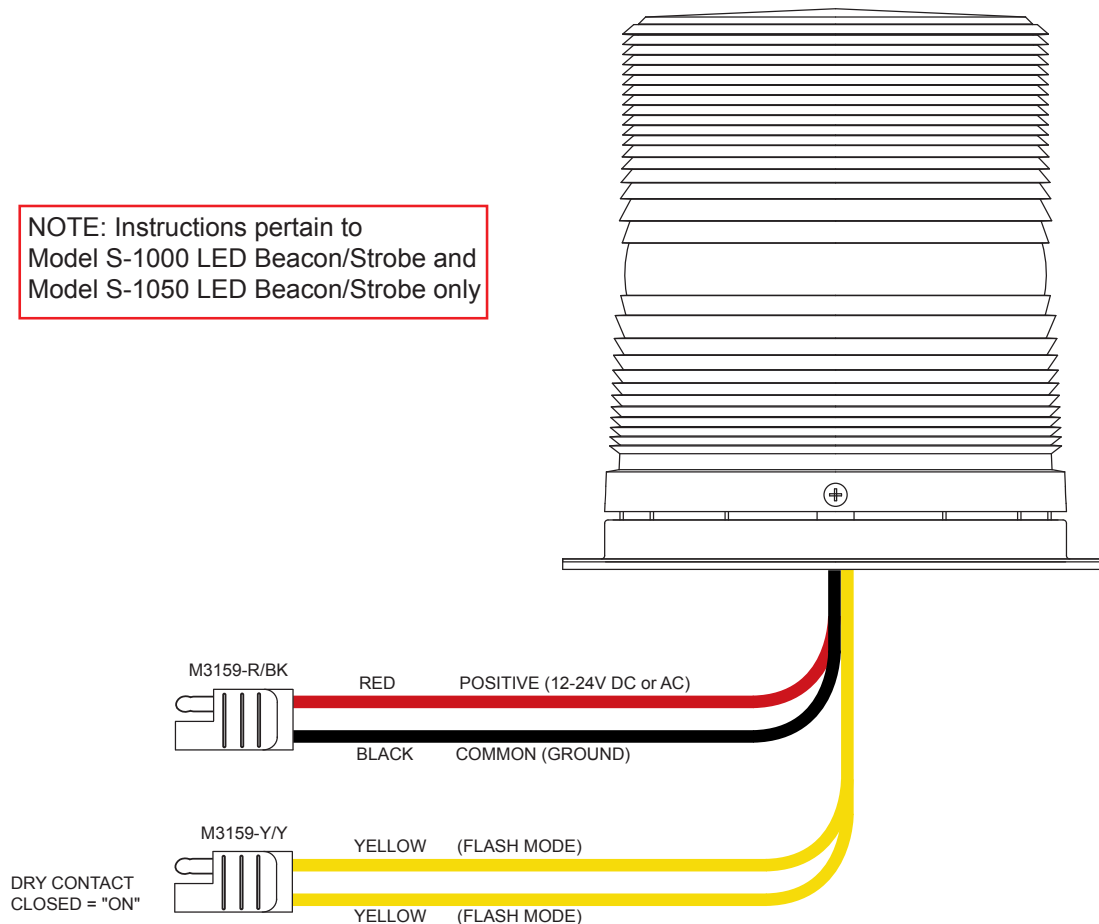
CAUTION: REMOVE ALL POWER FROM UNIT BEFORE SERVICING.

ATTENTION: WHEN REPLACING A BEACON/STROBE ON THE MODEL CB 5 SERIES, MOUNTING SCREW THREADS <u>MUST</u> BE COATED TO PREVENT WATER LEAKAGE INTO THE UNIT.

OPERATION

To activate the LEDs in the PRIMARY-STEADYBURN MODE, connect the BLACK and RED wires to 12-24 volts AC or DC.

When in PRIMARY-STEADYBURN MODE, to change the LEDs to SECONDARY-FLASH MODE, connect both YELLOW control wires together (i.e., CLOSED = ON).

PHOTOCELL FEATURE (S-1050 MODEL)

The Steadyburn Mode will be ON in dark or night ambient environments and OFF in bright or daylight ambient environments. The S-1050 LED Beacon/Strobe has two built-in photo response features: (a) dawn/dusk transition delay of 15-30 minutes and (b) transient light acknowledgement delay of at least 3 minutes.

PROGRAMMING PRIMARY & SECONDARY MODES

1. Remove power from unit.

2. Short the Yellow wires together.

3. Restore power to the unit and wait until the unit begins to flash. Once the unit begins to flash, remove the short. The unit will alternately demonstrate the Secondary-Flash Mode and Primary-Steadyburn Mode that will be displayed during operation. For approximately 4 seconds the Secondary-Flash Mode will be demonstrated, followed by the Primary-Steadyburn Mode.

4. To select the next mode of operation, momentarily short the yellow wires. The unit will cycle to the next mode in the list above.

MODE NUMBER	PRIMARY-STEADYBURN MODE	SECONDARY-FLASH MODE
1	High	Single - 60 FPM
2	OFF	Single - 60 FPM
3	Low	Single - 60 FPM
4	High	Single - 150 FPM
5	OFF	Single - 150 FPM
6	Low	Single - 150 FPM
7	High	Single - 375 FPM
8	OFF	Single - 375 FPM
9	Low	Single - 375 FPM
10	High	Neobe - 75
11	OFF	Neobe - 75
12	Low	Neobe - 75
13	High	Neobe - 150
14	OFF	Neobe - 150
15	Low	Neobe - 150
16	High	Double - 125
17	OFF	Double - 125
18	Low	Double - 125
19	High	Double - 250
20	OFF	Double - 250
21	Low	Double - 250

5. There are seven Flash Modes and three Steadyburn Modes combinations to choose from:

6. When you reach the desired mode of operation, remove power from the unit. You MUST leave power disconnected for 20 seconds BEFORE reapplying. When power is reapplied, the unit will operate as programmed above.

NOTE: If you do not leave power disconnected for 20 seconds before reapplying power, the light will default to Program Mode.

INPUT VOLTAGE RANGE: 12-24V AC or DC	
TEMPERATURE RATING: -40^0 C to +65^0 C (-40^0 F to 149^0 F)	
TYPICAL POWER CONSUMPTION AT 25^{0}C	
Voltage Flash Mode	Steady Mode - High

	Voltage Flash Mode	Steady Mode - High
12V DC	0.24 A Max	0.24 A
24V DC	0.12 A Max	0.12 A
12V AC	1.1 A rms Max	0.53 A rms
24V AC	0.22 A rms Max	0.22 A rms

NOTE: Average current draw in Flash Mode will vary by selected Flash Mode. The above maximum amperage draw is stated at Single 60 FPM.
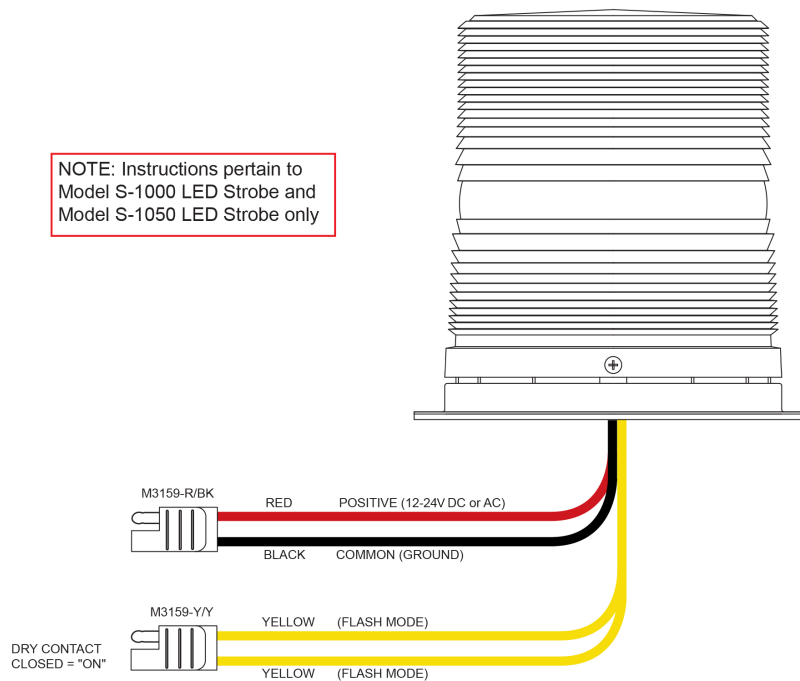
5 Troubleshooting

1. Check power.
   a. 12-24V AC or DC
2. Ensure correct programming mode.
3. Check to see if connected to auxiliary output port 1 N.O. and dry contact ohms out between 20-25.
4. Simply short the yellow pair to check if the strobe is flashing accordingly.
5. Ensure you enabled the auxiliary output in your script for IP phones.

   http://www.codeblue.com/support/downloads/videos

NOTE: Instructions pertain to Model S-1000 LED Strobe and Model S-1050 LED Strobe only

M3159-R/BK

RED   POSITIVE (12-24V DC or AC)

BLACK   COMMON (GROUND)

M3159-Y/Y

YELLOW   (FLASH MODE)

DRY CONTACT
CLOSED = "ON"

YELLOW   (FLASH MODE)

6 Technical Specifications

Power	Certification
12 – 24V AC or DC	NEMA 4X rated
Environmental	**Rating**
-40°C to +65°C (-40°F - +149°F)	92 Candela
0 – 95% RH non-condensing	
Physical	
S-1000 5.50" diameter x 5.1" high S-1050 5.50" diameter x 5.1" high	Refactor cover has a prismatic design to distribute light in a horizontal pattern.
2.2 lbs.	Electronics set in a potted base
Four blue forward emitting LEDs	Dry contact "closed" on
Blue Lexan-type polycarbonate refractor cover	

7 Parts Assembly

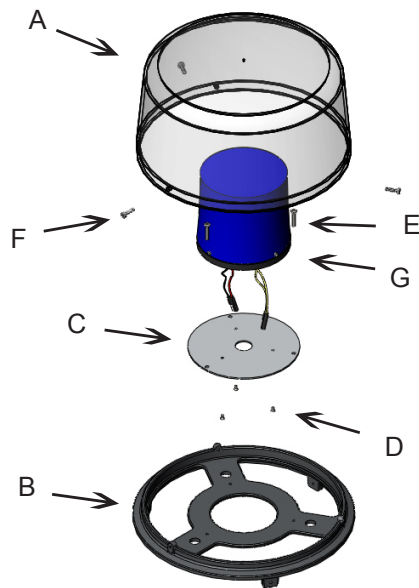**Dome Top Assembly Ships Assembled as a Kit**

Part No. 40260

    A.   Dome Top Lens
    B.   Dome Top Casting
    C.   Disk For Strobe
    D.   #6-32 x ¼" Countersunk Screws
    E.   #10-24 x 1" PH Screws
    F.   #10-24 x ¾" Button Head Security Screws
    G.   LED Beacon/Strobe S-1000

24V LED Standard Beacon/Strobe Only

Part No. 40159 (S-1000)

Part No. 40542 w/photocell (S-1050)

8 Warranty

Code Blue Corporation provides a limited warranty on this product. Refer to your sales agreement to establish the terms. In addition, Code Blue's standard warranty language, as well as information regarding support for this product while under warranty, is available at **www.codeblue.com/support/downloads**.

Notice: Every effort was made to ensure that the information in this document was complete and accurate at the time of printing. Information is subject to change.