



INSTALLATION, OPERATION AND MAINTENANCE DATA SHEET FOR - MODEL 4375 LED BEACONS

FOR CLASS I, DIV. 2, GROUPS ABCD
CLASS II, DIV 2 GROUPS F & G
HAZARDOUS LOCATIONS



SAFETY MESSAGE TO INSTALLERS, USERS, AND MAINTENANCE PERSONNEL

It is important to follow all instructions shipped with this product. This device is to be installed by a trained installer who is thoroughly familiar with the national electrical code and local codes as well. The selection of the mounting location for the device, its controls and the routing of the wiring is to be accomplished under the direction of the facilities engineer. In addition, listed below are some other important safety instructions and precaution you should follow:

- Read and understand all instructions before installing or operating this equipment.
- Do not connect this device to the system when the power is turned on.
- After installation, ensure that all screws and thread joints are properly tightened.
- After installation, test the system regularly to ensure that it is operating properly.
- After installation and testing is complete, provide a copy of this instruction sheet to all operating

Wiring the Beacon

The Model 4375 Series strobe Beacon should be installed per the NEC or CEC, STATE and LOCAL CODES, using a suitable wiring system for the specific hazardous location. Alternate installation locations and/or orientations should only be performed with the approval of the authority having jurisdiction.

Wiring the AC Models

1. Ensure that power is off.
2. Install conduit to conduit opening and tighten set screw.
3. Pull field wiring through conduit into enclosure/base.
4. Remove the threaded dome assembly by twisting it counterclockwise.
5. Remove the LED light engine assembly by removing 2 screws attaching the metal disk to the case.
6. Connect the black lead to 120-240VAC 50-60Hz phase (hot) side of the power source and the white lead to the common (neutral) side of the AC power source. Connect the green wire to ground.
7. Select the mode of operation, either flashing or steady burn mode, via either internal dip switch or external connections of the blue and yellow wires. See Table 1 for proper settings and connections.

Note: 1. Dip switches will override any external wire connections.

Note: 2. If the blue and yellow wires are not used cut off or cap with a wire nut.

TABLE 1		
Internal Dip Switch Settings for setting modes of operation		
Switch 1	Switch 2	Mode
On	Off	Single flash 2 380mS On, 380ms Off
Off	On	Double flash @200mS On, @00mS On, 900mS Off
On	On	Off
Off	Off	Steady Burn PWM @ 66.4%
External Wire Connections for setting modes of operation		
Yellow	Blue	Mode
Line	Neutral	Single flash 2 380mS On, 380ms Off
Neutral	Line	Double flash @200mS On, @00mS On, 900mS Off
Line	Line	Off
Neutral	Neutral	Steady Burn PWM @ 66.4%
Notes: The yellow and blue wires can also be connected to PLC controller for mode activation. For a PLC the input voltage can be either be AC or DC, but must be greater than 100 volts RMS and no more than 240 volts RMS		

8. Replace the LED light engine assembly and attach 2 screws.
9. Secure the dome to the base of the beacon.
10. Connect power to the beacon and test it for proper operation

Wiring 24 VAC/VDC Models (4375L-24)

1. Ensure that power is off.
2. Install conduit to conduit opening and tighten set screw.
3. Pull field wiring (including external mode operation wiring, if applicable) through conduit into enclosure/base.
4. Remove the threaded dome assembly by twisting it counterclockwise.
5. Remove the LED light engine assembly by removing 2 screws attaching the metal disk to the case.
6. Connect the black lead to 12-30VAC 50-60Hz phase (hot) or 12-30VDC positive DC side of the AC/DC power source and the white lead to the common (neutral) side or negative DC side of the AC/DC power source. Connect the green wire to ground.
7. Select the mode of operation, either flashing or steady burn mode, via either internal dip switch or external connections of the blue and yellow wires. See Table 2 for proper switch settings and wire connections.

Note: 1. Dip switches will override any external wire connections made.

Note: 2. If the blue and yellow wires are not used cut off or cap with a wire nut.

TABLE 2		
Internal Dip Switch Settings for setting modes of operation		
Switch 1	Switch 2	Mode
On	Off	Single flash 2 380mS On, 380ms Off
Off	On	Double flash @200mS On, @00mS On, 900mS Off
On	On	Off
Off	Off	Steady Burn PWM @ 66.4%
External Wire Connections for setting modes of operation		
Yellow	Blue	Mode
Line	Neutral	Single flash 2 380mS On, 380ms Off
Neutral	Line	Double flash @200mS On, @00mS On, 900mS Off
Line	Line	Off
Neutral	Neutral	Steady Burn PWM @ 66.4%
Notes: yellow and blue wires can also be connected to PLC controller for mode activation. For a PLC the input voltage can be either be AC or DC, but must be greater than 10 volts RMS and no more than 24 volts RMS		

8. Replace the LED light engine assembly and attach 2 screws.
9. Secure the dome to the base of the beacon.
10. Connect power to the beacon and test it for proper operation

EXPLOSION HAZARD—To reduce the risk of fire or explosion, do not install the beacon in a hazardous location if the operating temperature exceeds the hazardous atmosphere's ignition temperature. Before proceeding, consult the product nameplate and determine the operating temperature of the beacon.

OPERATION

To operate the unit, apply power after any changes to flash rate settings (tables above).

SERVICE AND REPAIR

DANGER HIGH VOLTAGE

Should the light fail to operate, check to see that the proper voltage is reaching the unit. If the unit still fails to operate, replace the light engine.

To replace a lens or light engine, switch power off and wait 5 minutes before removing lens.

WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON - HAZARDOUS.

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