

OLR - Obstruction Lighting Relay

Installation & Maintenance Information

Crouse-Hinds
by **EAT•N**

IF 1734

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

GENERAL

The Crouse-Hinds OLR (Obstruction Lighting Relay) assembly, part number 70020-LED, consists of a solid-state module (encapsulated for long life), mounted in a cast aluminum weatherproof housing.

APPLICATION

The OLR-70020-LED can provide fault indication if one or two LED (L-810) lamp loads fail. Alarm mode activates with failure of first light, providing isolated dry contacts and non-isolated alarm outputs. Alarms clear with replacement of failed lights.

SPECIFICATIONS

Power Source: 120 VAC $\pm$ 20%, 50/60 Hz
Sensor: Toroid - through hole – maximum sensing current 25 amps
Alarm Output: Non-Isolated » 250 watt @ 120 VAC steady state Alarm
Output: Isolated » 10 amps @ 120 VAC; 8 amps @ 30 VDC
Environmental: -40° F to +150° F

INSTALLATION

The OLR is designed for outdoor mounting in a vertical conduit run. Assembly is field programmable for specific tower application.

CONNECTION TO POWER SOURCE AND LOAD

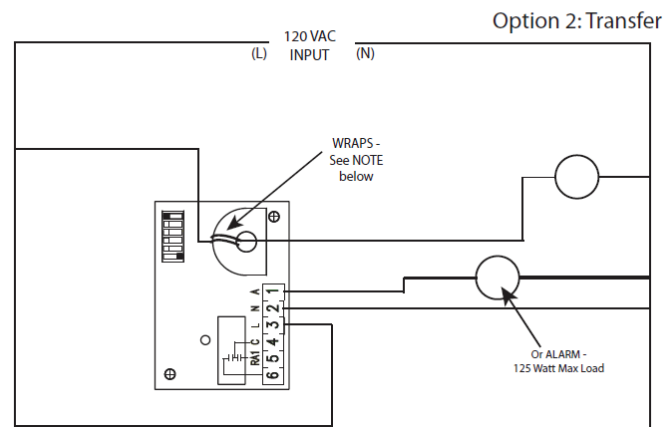
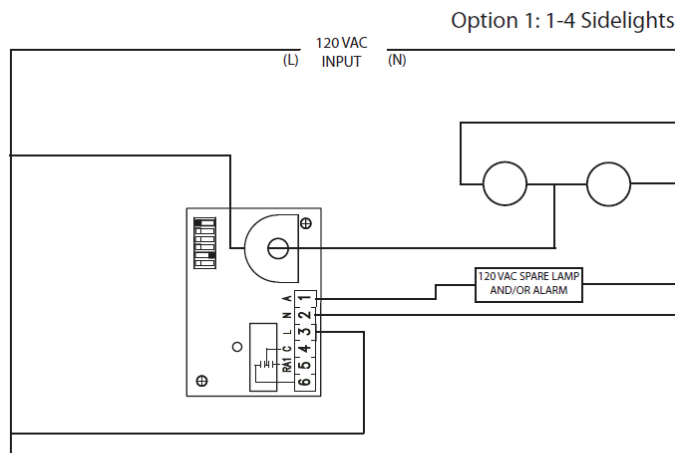
1. Remove four (4) cover screws.
2. Connect power source and alarm circuits to assembly. (See connection diagram.)
3. Feed lamp wire through toroid prior to finishing lamp connection. (See beacon or side lamp connection diagram.)
4. SELECT PROPER PROGRAMMING FOR TOWER APPLICATION. (SEE PROGRAMMING GUIDE.)
5. Ensure OLR is properly grounded through conduit system, or provide separate ground to case.
6. Reinstall cover using four (4) screws supplied.

PROGRAMMING GUIDE

1. Select lamp wattage: 116 watts
2. Select voltage: 120 VAC
3. Select number of lamps: 1 to 4

Note: Select the number of lamps that are ON during normal operation. Only one lamp switch may be in the ON position at any given time.

SIDE LAMP CONNECTION DIAGRAMS



NOTE: If using: RTLSF / 120-240 RTLDF / 120-240 Install with 16 loops, 17 passes through the toroid (monitor 1-4 single fixtures)

If using: OWLFSR / 120 Install with 3 wraps through the toroid (use only with 1 lamp and transfer to spare lamp)

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