Front Matter

Abstract
This manual contains information and instructions for installing, operating and maintaining the OLR70020.

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Cooper Crouse-Hinds warrants all components, under normal operating conditions, for one year.
**Parts Replacement**
The use of parts or components, in this equipment, not manufactured or supplied by Cooper Crouse-Hinds voids the warranty and invalidates the third party testing laboratory certification which ensures compliance with FAA Advisory Circulars 150/5345-43E, 150/5345-51 and 150/4345-53B. The certification is valid as long as the system is maintained in accordance with FAA guidelines (FR doc. 04-13718 filed 6-16-04).

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

**Application**
The OLR70020 can provide fault indication if one or more incandescent lamp loads fail. It will support 116 watt operation of one to four incandescent L810 side lamps and 620 watt operation of one to two flashing beacons. Alarm mode activates with the failure of the first lamp providing isolated dry contacts and non-isolated alarm outputs. Alarms clear with replacement of failed lamps.

**Specifications**
Voltage is 120 volts AC at 50 or 60 hertz. Sensor toroid through hole maximum sensing current 25 amps. Alarm outputs are rated at 8 amps at 120 volts AC or 30 volts DC. This is rated for use at 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 a 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 connection diagram)
4. OLR should be securely grounded through the conduit system or a separate ground should be provided to the case
5. Reinstall cover using four (4) screws supplied
Wiring Diagrams

Beacon connection diagram (Option # 1)
Side lamp connection diagram (Option #2)

Programming info:
1. Select lamp wattage 620 or 116 watts
2. Select voltage 120 volts AC or 230 volts AC
3. Select number of lamps, 1 thru 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.