Installation & Maintenance Information

Application

RCDER-6 and RCDER-10 Series incandescent floodlights are designed for portable use in Class I, Division I, Groups C, D* hazardous (classified) locations as defined by the National Electrical Code®. Refer to fixture nameplate for specific classification information.

The floodlight is provided with a cast aluminum wheelbase having an integral weatherproof junction box fitted with a connector for the external cord. The lamp receptacle is wired to a terminal block in the junction box through an explosionproof seal in the elbow.

These floodlights may be used with the following lamps:

RCDER-6 Model No. 44655B — are designed for use with 150 watt PAR38 or R40; or 300 watt R40 incandescent lamps.

RCDER-10 Model No. 47283A — are designed for use with 500 watt PAR64 incandescent lamps.

* RCDER-6 units used with 300 watt lamps and all RCDER-10 units are suitable for Class I, Group D locations only.

Fixture Installation

**Warning**

- Electrical power must be OFF before and during installation and maintenance.
- Do not install the fixture where marked operating temperatures exceed ignition temperatures of hazardous atmospheres.
- Proper field wiring as specified on fixture nameplate must be used.
- This lighting fixture is designed to operate aimed horizontally or below. Do not aim above horizontal.

**Note:** When base is mounted on a horizontal surface, the unit can be aimed a maximum of 45° down.

1. Use 3 conductor, number 16 AWG or larger type S, SO, ST, or STO only (not furnished).
2. On floodlight end of cord, carefully strip jacket back 3" to 4" to expose wires. Strip individual conductor insulation 3/8".
3. Remove the four screws which secures the splice chamber cover on underside of wheelbase. Remove the cover.
4. Disassemble female section of cord fitting (part with strain relief clamp, rubber bushing and gland washer.)
5. Slip female part of cord fitting over stripped end of cord and slip rubber bushing and gland washer over same end of cord.
6. Insert stripped end of cord through male cord fitting on splice chamber, so that end of jacket is flush with inside wall of splice chamber.
7. Thread female part of cord fitting tightly on to male fitting and tighten two screws on strain relief clamp.
8. Connect white insulated conductor to white plated pressure connector. Connect black conductor to brass colored connector. Connect green conductor to center terminal marked “G”.

**Warning**

Use fixture only on grounded systems. Make sure that supply voltage is the same as fixture voltage. Maximum allowable voltage is 250 volts.

9. Carefully position conductors and replace splice chamber cover. Securely tighten four screws removed in Step 3.
10. Attach a UL listed 3-conductor grounded plug to other end of cord, making connections in accordance with instructions provided with the plug.

**Warning**

If the connections to the electrical circuit is in a hazardous (classified) area, a UL listed explosionproof plug and receptacle must be used. If the connection is made outside the hazardous area, a UL listed 3-conductor grounded plug suitable for non-hazardous areas may be used. (Refer to Article 500 of the National Electrical Code.)

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FIXTURE ADJUSTMENT — ALL UNITS

CAUTION
Electrical power should be OFF before and during fixture adjustment.

1. Loosen the adjustment screw by turning handle on trunnion support arm counterclockwise. See Figure 1.

2. Aim fixture in desired direction and then retighten by turning the adjustment screw handle clockwise.

LAMP INSTALLATION — ALL UNITS

WARNING
Primary power source must be OFF before opening fixture for inspection or lamp installation.

1. Remove the threaded lens/door assembly from fixture and carefully set it aside for re-assembly later.

2. Install incandescent 120V lamp. The following lamps may be used, depending on the hazardous area classification:

<table>
<thead>
<tr>
<th>Lamps For RC DER-6</th>
<th>Lamps For RC DER-10</th>
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<tbody>
<tr>
<td>150W PAR-38 Spot or Flood</td>
<td>500W PAR64 Spot or Flood Class I, Group D Only</td>
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<tr>
<td>150W R40 Spot or Flood</td>
<td></td>
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<tr>
<td>300W PAR-38 Spot or Flood</td>
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CAUTION
Use care to prevent dirt, grit or other foreign material from lodging on threads. If any such material settles on these threads, clean them with kerosene or Stoddard solvent*, then relubricate with Crouse-Hinds Type STL thread lubricant.

(*To avoid the possibilities of an explosion, oxidation and corrosion, do not use gasoline or similar solvents.)

3. Replace the lens/door assembly, thread tightly against housing.

4. Installation is complete and power source may be turned ON.

The lens should be cleaned periodically to insure continued lighting performance. To clean, wipe the lens with a clean, damp, soft cloth. If this is not sufficient, use a mild soap or a liquid cleaner such as Collinite NCF or Duco #7. DO NOT use an abrasive, strong alkaline, or acid cleaner.

- Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts or leakage evidenced by water or corrosion in the interior.
- Electrically check to make sure that all connections are clean and tight.
- Mechanically check that all parts are properly assembled.

MAINTENANCE

WARNING
Always disconnect primary power source before opening fixture for inspection or service.

Perform visual, electrical and mechanical inspections on a regular basis. This should be determined by the environment and frequency of use. However, it is recommended that checks be made at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds “Terms and Conditions of Sale”, and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection herewith.

CROUSE-HINDS ELECTRICAL CONSTRUCTION MATERIALS

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