Proven Protection for Critical Utility Equipment and Systems

Lock-Out Relays (LORs) are designed to protect equipment and personnel in critical utility applications. In an emergency, LOR performance can mean the difference between a routine outage and the destruction of vital equipment. Proven in thousands of applications, Electroswitch Lock-Out Relays are the industry standard for safety and reliability. With Electroswitch Lock-Out Relays, there’s NEVER A DOUBT!

15-Deck Lock-Out Relay

Designed for today’s most demanding applications, the Electroswitch 15-Deck Lock-Out Relay:

- Provides 30 Normally Open (N/O) and 30 Normally Closed (N/C) contacts
- Trips in under 8 milliseconds
- Requires no special mounting

Push-to-Trip Lock-Out Relay

Push-to-trip Lock-Out Relays provide a safe means of tripping circuits without opening the panel or exposing maintenance personnel to risk.

- Simplifies testing of connected circuits
- Eliminates the need to trip from rear of panel
- Allows tripping of LOR without using jumpers or trip signal
- Design prevents accidental tripping and ensures tripping of intended LOR
- Initial test is done electrically, subsequent testing can be done manually
- Trip button is easily accessed via a hole drilled in the panel

Additional Series 24 Lock-Out Relays from Electroswitch

SLOR Serial
LOR/SR Self-Reset
LOR/ER Electric Reset
**Series 24 Lock-Out Relays**

**High Quality**
- Designed and manufactured to the highest standards in the industry
- Qualified to UL, CSA
- ANSI/IEEE C97.90-2005
- ANSI/IEEE C37.90-2012

**Versatility**
- 9 Different trip coils to choose from
- Up to 30 N/O and 30 N/C contacts in one standard LOR
- Available with electric reset capability
- Available with built-in coil monitoring and fault signal detection/indication

**High-Speed**
- Transition times of less than 8 milliseconds (1/2 cycle) are standard

**Optional Lighted Nameplate**
- Continuously lit left LED indicates LOR is in a ready state
- Continuously lit Right LED indicates presence of trip signal to warn against resetting into a fault
- Eliminates the need for pilot lights and expensive inter wiring, and reduces panel space

**Availability**
- Virtually all Series 24 Manual Reset LORs are available from stock for immediate delivery
- Most popular Electric Reset LORs (LOR/ERs) are also available from stock

**Service**
- Electroswitch Customer Service and Application Specialists can help you with product selection and application. Let us put over 50 years of know-how to work for you!

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### Specifications

#### Electrical
- Continuous Ratings: 30A–600V
- Making Ability for CB Coils: 95A–125VDC
- UL Interrupt Ratings: 20A–120VAC, 1.5A–240VAC, 6A–600VAC, 3A–125VDC, 1A–250VDC
- Overload Current (50 Ops): 95A–120VAC, 65A–240VAC, 35A–600VAC
- Contact Resistance: .01 Ohms Maximum

#### Electronic
- Baud Rate: 9600 Std; 1200, 4800, 19200 Selectable
- Transient Protection: Meets IEEE C37.90.1 and IEC 61000-4-4
- Self-Reset Time: Optional, Programmable, 0.1 to 60 Sec.

#### Mechanical
- Decks: 1-10, 12, 15 Std. – Consult Factory for Options
- Contacts: 2 N/O and 2 N/C Per Deck
- Action: 45°
- Mounting: Panel Mount, 3 Hole Mounting, Panel Thickness 3/16" Max. Standard – Consult Factory for Options
- Rotary Contacts: Double-Wiping Silver Overlay Phosphor-bronze
- Stationary Contacts: Silver Inlay in Brass, Silver Plated with Integral Screw Type Terminals
- Construction: Contacts Enclosed in Molded Phenolic Insulators

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### Trip Coil Voltage Data

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Nominal Voltage</th>
<th>Threshold Voltage</th>
<th>Operating Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>24VDC</td>
<td>6VDC</td>
<td>10-40VDC</td>
</tr>
<tr>
<td>B</td>
<td>24VDC</td>
<td>9VDC</td>
<td>18-50VDC</td>
</tr>
<tr>
<td>C</td>
<td>48VDC</td>
<td>12VDC</td>
<td>24-70VDC</td>
</tr>
<tr>
<td>D</td>
<td>125VDC</td>
<td>16VDC</td>
<td>30-140VDC</td>
</tr>
<tr>
<td>E</td>
<td>125VDC</td>
<td>23VDC</td>
<td>45-140VDC</td>
</tr>
<tr>
<td>F</td>
<td>250VDC</td>
<td>33VDC</td>
<td>70-280VDC</td>
</tr>
<tr>
<td>G</td>
<td>240VAC</td>
<td>40VAC</td>
<td>60-280VAC</td>
</tr>
<tr>
<td>H</td>
<td>125VDC</td>
<td>70VDC</td>
<td>90-140VDC</td>
</tr>
<tr>
<td>K</td>
<td>125VDC</td>
<td>16VDC</td>
<td>100-150VDC</td>
</tr>
</tbody>
</table>

### Trip coil and Electronics

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Nominal Voltage</th>
<th>Coil Circuit DC Ohms @ 25C</th>
<th>Burden (Amps) at Rated Voltage</th>
<th>Coil Circuit DC Ohms @ 25C</th>
<th>Burden (Amps) at Rated Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>48VDC</td>
<td>13.0</td>
<td>3.7</td>
<td>3.0</td>
<td>15.9</td>
</tr>
<tr>
<td>D</td>
<td>125VDC</td>
<td>27.0</td>
<td>4.6</td>
<td>12.4</td>
<td>10.1</td>
</tr>
<tr>
<td>F</td>
<td>250VDC</td>
<td>104.0</td>
<td>2.4</td>
<td>80.6</td>
<td>3.1</td>
</tr>
</tbody>
</table>

For additional trip coil options, consult factory or see LOR-1 Tech Pub on website.