

**ELECTROSWITCH****NEW!****LOR**

Series 24 Lock-Out Relays

## 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

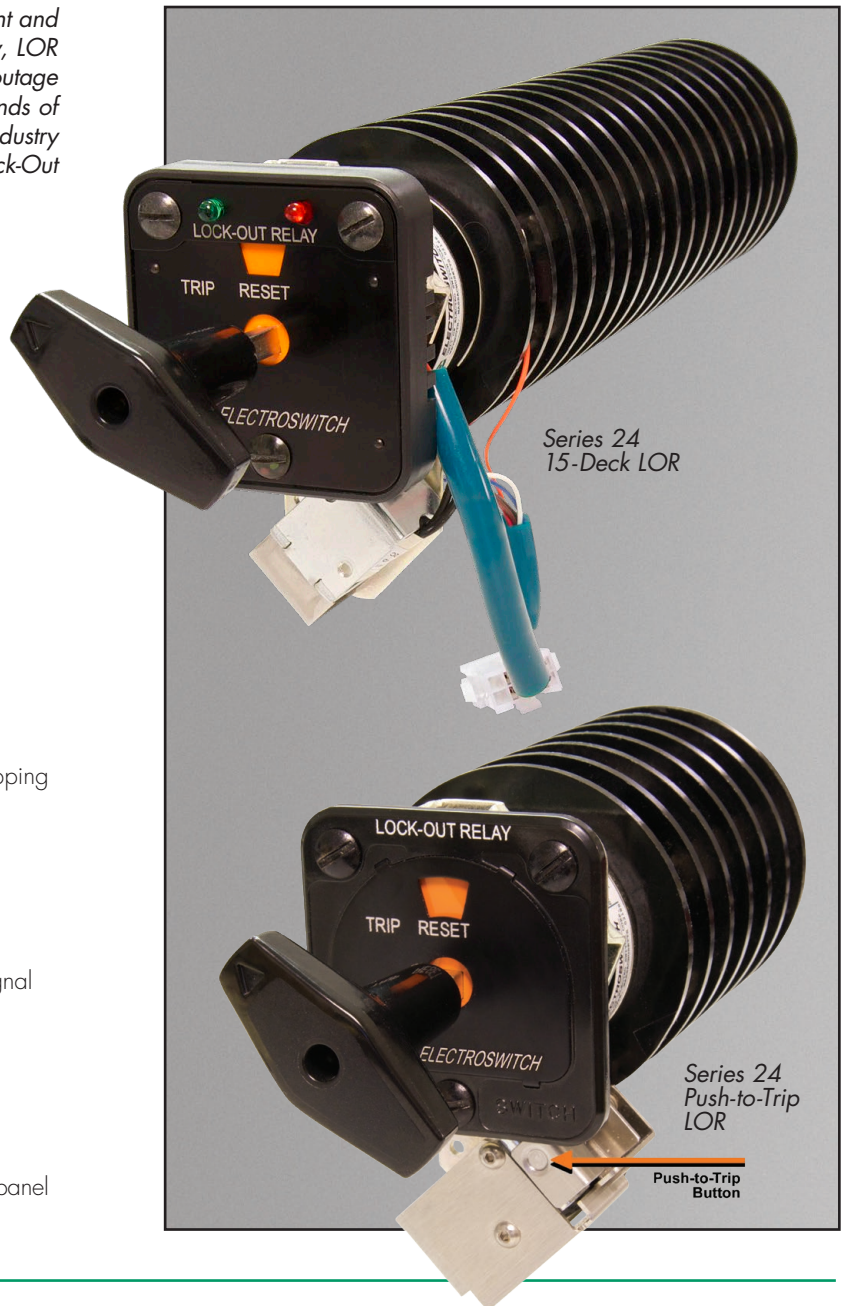
Designed for today's most demanding applications, the Electroswitch 15-Deck Lock-Out Relay:

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

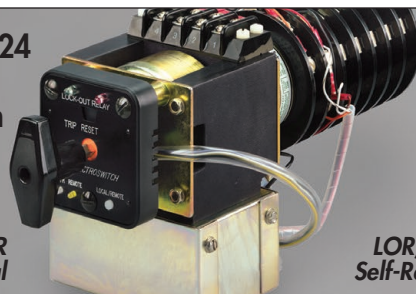
### Push-to-Trip Lock-Out Relay

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****ELECTROSWITCH**



## Series 24 Lock-Out Relays

## High Quality

- Designed and manufactured to the highest standards in the industry
- Qualified to UL, CSA
- ANSI/IEEE C37.90-2005
- ANSI/IEEE C37.90.1-2012

## 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 interwiring, 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!

## Specifications

## Electrical

Continuous Ratings: 30A-600V  
 Making Ability for CB Coils: 95A-125VDC  
 UL Interrupt Ratings: 20A-120VAC, 15A-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

| Voltage Range | Nominal Voltage | Trip Coil                  |                                | Reset Coil and Electronics |                                |
|---------------|-----------------|----------------------------|--------------------------------|----------------------------|--------------------------------|
|               |                 | Coil Circuit DC Ohms @ 25C | Burden (Amps) at Rated Voltage | Coil Circuit DC Ohms @ 25C | Burden (Amps) at Rated Voltage |
| C             | 48VDC           | 13.0                       | 3.7                            | 3.0                        | 15.9                           |
| D             | 125VDC          | 27.0                       | 4.6                            | 12.4                       | 10.1                           |
| F             | 250VDC          | 104.0                      | 2.4                            | 80.6                       | 3.1                            |

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

## Trip Coil Voltage Data

| Voltage Range | Nominal Voltage  | Threshold Voltage | Operating Range        |
|---------------|------------------|-------------------|------------------------|
| A             | 24VDC            | 6VDC              | 10-40VDC               |
| B             | 24VDC            | 9VDC              | 18-50VDC               |
| C             | 48VDC            | 12VDC             | 24-70VDC               |
| D             | 125VDC<br>120VAC | 16VDC<br>20VAC    | 30-140VDC<br>30-140VAC |
| E             | 125VDC           | 23VDC             | 45-140VDC              |
| F             | 250VDC<br>240VAC | 33VDC<br>40VAC    | 70-280VDC<br>60-280VAC |
| G             | 125VDC           | 70VDC             | 90-140VDC              |
| H             | 250VDC           | 140VDC            | 180-280VDC             |
| K             | 125VDC           | 16VDC             | 100-150VDC             |

## Depth Behind Panel (inches)

| Number of Decks | Manual Reset LOR | High-Speed Trip LOR/ER | LOR/ER and Instant LOR/SR Time Delay | Reset LOR/SR |
|-----------------|------------------|------------------------|--------------------------------------|--------------|
| 1               | 3.63             |                        |                                      |              |
| 2               | 4.38             |                        |                                      |              |
| 3               | 4.75             | 8.00                   | 8.00                                 | 8.63         |
| 4               | 5.50             |                        |                                      |              |
| 5               | 6.25             | 9.75                   | 9.75                                 | 10.38        |
| 6               | 7.50             |                        |                                      |              |
| 7               | 8.13             |                        |                                      | 11.63        |
| 8               | 8.50             | 11.63                  | 11.63                                |              |
| 10              | 9.63             | 12.90                  |                                      |              |
| 12              | 10.40            |                        |                                      |              |
| 15              | 12.75            |                        |                                      |              |



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