

'Automation That Keeps A Handle On System Protection And Control'

The Series 24 Serial (Communication) Lock-Out Relay (SLOR) with Certified DNP 3.00 expands the functionality of our field proven Series 24 Electric Reset and Self Reset Lock-Out Relay in a single unit.

As an addressable network device, the SLOR provides Remote Trip Capability, Trip Coil Monitoring, Sequence of Events Reporting, System Battery Monitoring and Self-Diagnostic Reporting.

Most importantly, the SLOR design maintains the reliable hard-wired protective device trip and manual reset functions.

Note: Manually resetting into a fault can possibly damage the LOR trip coil.

Additional Features

Cost-Saving Benefits

- Manual Reset
- •
- Construction and Contacting Based on the Field Proven LOR Device
- Mechanical Target Flag
- SLOR Trip Coil Integrity LED Monitors . in Either Trip or Reset Position
- Serial Bus Xmit/Rec Bicolor LED Local/Remote Mode Control
- with LED Status Indication
- LED Trip Signal Indication •
- SLOR Position Status via SCADA
- 2 Additional Auxiliary Monitoring • Inputs are Included
- Optional Programmable Self-Reset Timing and Logic

- Free up RTU Points
- Reduce Point to Point Wiring
- Simplify Testing for Easier Commissioning •
- Minimal Training Required
- Simplify Load Shedding Applications
- May Eliminate Separate Devices
 - RTU
 - Discrete Battery Monitors
 - Local/Remote Control Switch
 - Coil Monitoring Lamp
 - Reclosing Relay
- Precise Sequence of Events Log with IRIG-B'Input



Serial Lock-Out Relay



The simplified SLOR installation provides cost savings associated with wiring (wiring errors), testing, and commissioning.









)---O AUX. INPUT A -

- O AUX. INPUT B -

- AUX. INPUT B +

O AUX. INPUT A +

N1 N2

N6 N5

TERMINAL BLOCK DECK

(FRONT VIEW)

CONTROL DECK

(FRONT VIEW)

N3

N4

VN8

N7

S1 TRIP-





Installation Connections

A

0

J4

· BATTERY +

- BATTERY -

SWITCH

FACTORY

NAMEPLATE

0000

CONNECTORS

DIP SWITCH SETS

LOWEST 12 BITS OF DNP ADDRESS

DECKS

(Rear View)

1

8 Ő 00

Ĵ3

IRIG-B

TERMINAL BLOCK

2 /3

Ο

A SHIELD RS-485

В

Nameplate Configuration



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	3, 5, 8 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		

Coil Burden Data

		Trip Coil		Reset Coil and Electronics	
Voltage Range	Nominal Voltage	Coil Circuit DC Ohms @ 25C	Burden (Amps) at Rated Voltage	Coil Circuit DC Ohms @ 25C	Burden (Amps) at Rated Voltage
С	48VDC	13.0	3.7	3.0	15.9
D	125VDC	27.0	4.6	12.4	10.1

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

DNP 3.00 Protocol Note: Refer to ES-SLOR-1 Tech Pub on website or consult factory regarding DNP 3.00 implementation for your application.

Required Ordering Information

- Protocol: DNP 3.00 Std.
- Consult Factory for Other Protocols
- Baud Rate: 9600 Std., Others Available
- Reset: Electrical Reset Std., Self-Reset Available
- Voltage: 125VDC Std. or 48 VDC Std.

This publication supersedes all previous editions. Specifications subject to change at the discretion of Electroswitch. Doc Name: DS2-SLOR Date: 13024 @2024 Electroswitch

- Engraving, Std. Shown Above
- (Other Engravings Available)
- L1, L2 Replaceable LEDs Green L1 & Red L2 are Std.
- Color Options (Amber, Red, Green, Blue, White)

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• Handle: Oval Std • Decks: Select 3, 5, or 8