



RLH Industries, Inc.

DATA SHEET

The leader in
rugged fiber optic
technology.

DS-098 2024A-0930

Smart⁸ Relay Output

CONTACT CLOSURE OVER ETHERNET

Ethernet I/O

The Smart Relay Output is an Ethernet device with 8 Integrated controllable relays. The device allows for web based control of the relays and may be integrated into distributed control and network management systems to allow those systems to control it's Relays. Each of the Relays can be individually configured to send customized emails and notifications when an event is triggered. The device supports a wide variety of protocols it is compatible with over Ethernet.

Contact Closure Over Ethernet

The RLH Smart Relay Output may be paired with an RLH Smart Input Sensor. RLH's System Link allows two devices to become linked, establishing a tunnel over an Ethernet network. Allowing for transport of digital outputs over Ethernet. The System Link feature can be set up via: One to One, Many to One, and One to Many.

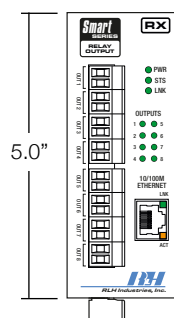
Smart
SERIES



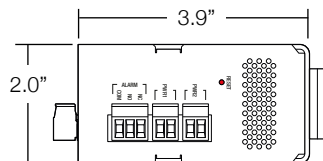
RLH Smart Series Relay Output

Key Features

- Rugged Design - Operating temp. -40°C ~ 70°C
- Intuitive embedded web interface for configuration
- System Link - Pair with a Input Sensor for Alarm Transportation over Ethernet
- Event Consolidation – Pair with up to 4 Input Sensors to consolidate remote alarms to one location.
- Remote Control of 8 Relays. (normally open or normally closed)
- Custom email notifications for each output
- Each relay supports up to 3 Amps or 60 Watts
- Advanced SMTP integration for SSL & TLS based authentication.
- Integration options: SNMPv1, 2c, 3, SNMPv1 & 2c Traps, Modbus TCP, and DNPv3 TCP.
- Output event log with time stamps
- NTP – Device can sync up with network time servers
- System power ranges available: 24-48VDC, 125VDC, & 12VDC
- 10/100 Fast Ethernet Port
- Limited Lifetime Warranty
- **Made in the U.S.A.**



Front Panel



Bottom Panel

Dimensional Information

Specifications

Power Voltage	Standard Model	24~48VDC
	-A Model	125VDC
	-B Model	12VDC
Power Consumption	6 Watts (Maximum)	
Wire Connectors	Screw down terminal block, 16~26AWG	
Outputs 1~8	Normally Open or Normally Closed Relays (SPST)	
System Status Alarm	Normally Open/Closed Relay (SPDT)	
Relay Maximum Rating	115VAC	1.08A 125VA
	12VDC	3.00A 36 Watts
	24VDC	2.50A 60 Watts
	48VDC	1.25A 60 Watts
	130VDC	0.46A 60 Watts
	220VDC	0.27A 60 Watts
System Link Response Time*	One-To-One (TCP)	Typical 8ms, Maximum 45ms
	One-To-Many (UDP)	< 15ms
	Many-To-One (TCP)	< 250ms
<i>* Specification listed is based on direct connections. Network overhead should be considered when calculating overall system response times.</i>		
Data Interface	Ethernet (RJ-45)	
Data Rate	10/100Mbps IEEE 802.3 Compliant	
Surge Protection	Varistor (MOVs) and automatic resettable fuse (PTC Thermistor)	
DC Input Isolation	1.5kV	
Construction	Powder coated steel and aluminum alloy	
Physical Dimensions	H 5.0" x W 2.0" x D 3.9" (127mm x 51mm x 100mm)	
	Not including connectors or DIN rail bracket	
Mounting Style	Standard DIN rail (T-35)	
Operating Temperature	-40°F to +158°F (-40°C to +70°C)	
Humidity	95%	
MTBF	175,000 Hrs (Circuit Board Level)	
Warranty	Limited Lifetime	

Ordering Information

Part Number	Description	Dimensions
SM-OUTPUT-NO-2	Smart Series 8 Channel Relay Output Normally open contacts	H 5.0 in. x W 2.0 in. x D 3.9 in. (127mm x 51mm x 100mm)
SM-OUTPUT-NC-2	Smart Series 8 Channel Relay Output Normally open contacts	H 5.0 in. x W 2.0 in. x D 3.9 in. (127mm x 51mm x 100mm)
SM-OUTPUT-OC-2	Smart Series 8 Channel Relay Output 4 Open (1-4) / 4 Closed (5-8)	H 5.0 in. x W 2.0 in. x D 3.9 in. (127mm x 51mm x 100mm)

- ▶ Please contact your RLH sales representative for pricing and delivery information.
- ▶ Add **-A** to the end of the part number for 125 VDC input power option.
- ▶ Add **-B** to the end of the part number for 12 VDC input power option.