



RLH Industries, Inc.

DATA SHEET

The leader in rugged fiber optic technology.

DS-106 2024A-0930

Smart⁴ Relay Output

CONTACT CLOSURE OVER ETHERNET

Ethernet I/O

The Smart Relay Output is an Ethernet device with 4 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 controlled 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

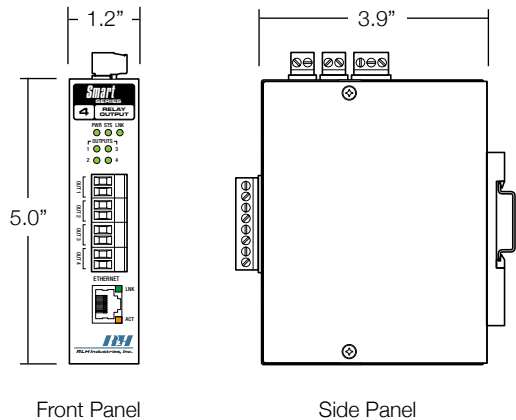
The RLH Smart Relay Output may be paired with an RLH Smart Input Sensor. RLH's System Link allows two devices to become linked, establishing a tunnel over an Ethernet network. Allowing for transport of digital outputs over Ethernet. The System Link feature can be set up via: One to One, Many to One,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

Key Features

- Rugged Design - Operating temp. -40°C ~ 70°C
- Power over Ethernet, can be powered by any IEEE 802.3af compliant PoE Source.
- Intuitive & Secure web Interface for easy 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 4 Relays. (normally open or normally closed)
- Custom email notifications for each output
- Each output relay - Rated for 3 amps
- 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.**



RLH Smart Series Relay Output



Dimensional Information

Specifications

Power Voltage	Standard Model	24~48VDC	
	-A Model	125VDC	PoE Powering Disabled
	-B Model	12VDC	PoE Powering Disabled
Power Consumption	6 Watts (Maximum)		
PoE Powered Device	IEEE 802.3af compliant		
Wire Connectors	Screw down terminal block, 16~26AWG		
Outputs 1~4	Normally Open or Normally Closed Relays (SPST)		
System Status Alarm	Normally Open/Closed Relay (SPDT)		
	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
Relay Maximum Rating			
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 1.2" x D 3.9" (127mm x 31mm x 100mm)		
	Not including connectors or DIN rail bracket		
Mounting Style	Standard DIN rail (T-35) or wall mount (with included ears)		
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-OUT4-NO-2	Smart Series Contact Output Normally open contacts	H 5.0 in. x W 1.2 in. x D 3.9 in. (127mm x 31mm x 100mm)
SM-OUT4-NC-2	Smart Series Contact Output Normally closed contacts	H 5.0 in. x W 1.2 in. x D 3.9 in. (127mm x 31mm 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.