



RLH Industries, Inc.

## DATA SHEET

The leader in  
rugged fiber optic  
technology.

DS-100 2024B-0930

# Smart<sup>8</sup> Input Sensor

## CONTACT CLOSURE OVER ETHERNET

### Ethernet I/O

The Smart Input Sensor is an Ethernet device with 8 integrated digital inputs. The device allows for web based monitoring of the inputs and may be integrated into distributed control and network management systems to allow those systems to alarm and monitor field devices. Each of the Inputs can be individually configured to send customized emails and notifications when an event is recorded. The device supports a wide variety of protocols it is compatible with over Ethernet.

### Contact Closure Over Ethernet

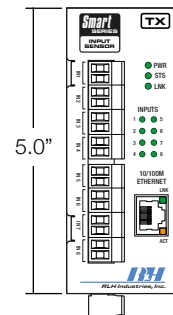
The Smart Input Sensor may be paired with a Smart Relay Output. RLH's System Link allows two devices to become linked, establishing a tunnel over an Ethernet network. Allowing for transport of digital outputs over Ethernet. The System Link feature can be set up via: One to One, Many to One, and One to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

### Key Features

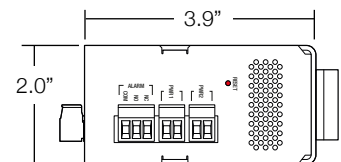
- Rugged Design - Operating temp. -40°C ~ 70°C
- Intuitive embedded web interface for configuration
- 8 Inputs for multiple device monitoring
- System Link - Pair with a Output Device for Alarm Transportation over Ethernet
- IGMP V2 supported to enable multicast routing in one to many configurations.
- Custom email notification settings for individual inputs
- Integration options include: SNMPv1, 2c, 3, SNMPv1 & 2c Traps, Modbus TCP, and DNPv3 TCP
- Input event log with time stamps
- Each input is optically isolated
- Includes DIN clip for easy installation.
- 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 Input Sensor



Front Panel



Bottom Panel

Dimensional Information

## Specifications

<b>Powering Voltage</b>	Standard Model	24~48VDC	
	-A Model	125VDC	
	-B Model	12VDC	
<b>Power Consumption</b>	6 Watts (Maximum)		
<b>Wire Connectors</b>	Screw down terminal block, 16~26AWG		
<b>Inputs 1~8</b> Polarity Insensitive	<b>SM-INPUT-DR-2</b>	Dry (0-100 ohms)	Optical isolation 3.5kV
	<b>SM-INPUT-24-2</b>	Wet (8~27VDC / 5mA)	Optical isolation 3.5kV
	<b>SM-INPUT-48-2</b>	Wet (20~52VDC / 5mA)	Optical isolation 3.5kV
<b>System Status Alarm</b>	Normally Open/Closed Relay (SPDT)		
<b>System Link Response Time*</b>	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>			
<b>Data Interface</b>	Ethernet (RJ-45)		
<b>Data Rate</b>	10/100Mbps IEEE 802.3 Compliant		
<b>Surge Protection</b>	Varistor (MOVs) and automatic resettable fuse (PTC Thermistor)		
<b>DC Input Isolation</b>	1.5kV		
<b>Construction</b>	Powder coated steel and aluminum alloy		
<b>Physical Dimensions</b>	H 4.93" x W 2.0" x D 3.93" (125mm x 51mm x 100mm)		
	Not including connectors or DIN clip		
<b>Mounting Style</b>	Standard DIN rail (T-35)		
<b>Operating Temperature</b>	-40°F to +158°F (-40°C to +70°C)		
<b>Humidity</b>	95%		
<b>MTBF</b>	175,000 Hrs. (Circuit Board level)		
<b>Warranty</b>	Limited Lifetime		

## Ordering Information

Part Number	Description	Dimensions
<b>SM-INPUT-48-2</b>	Smart Series 8 Channel Input Sensor Wet Input (24-48VDC)	H 5.0 in. x W 2.0 in. x D 3.9 in. (127mm x 51mm x 100mm)
<b>SM-INPUT-24-2</b>	Smart Series 8 Channel Input Sensor Wet Input (12-24VDC)	H 5.0 in. x W 2.0 in. x D 3.9 in. (127mm x 51mm x 100mm)
<b>SM-INPUT-DR-2</b>	Smart Series 8 Channel Input Sensor Dry Input	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 125VDC input power option.
- ▶ Add **-B** to the end of the part number for 12VDC input power option.