



**RLH Industries, Inc.**

fiber**optic**link.com

PRODUCT  
DATA SHEET

DS-80 2025-0415

## 5 Port 10/100 Unmanaged Industrial Ethernet Switch

**ETH-5-1**

### Industrial, Rugged and Compact

The RLH 5 Port 10/100 Unmanaged Industrial Ethernet Switch (ETH-5-1) is an environmentally hardened, high-performance networking solution built to uphold critical communication under extreme conditions.

The switch maintains redundant power terminals to ensure high system availability, and alerts end users of lost redundant power via a fault alarm relay and LED.

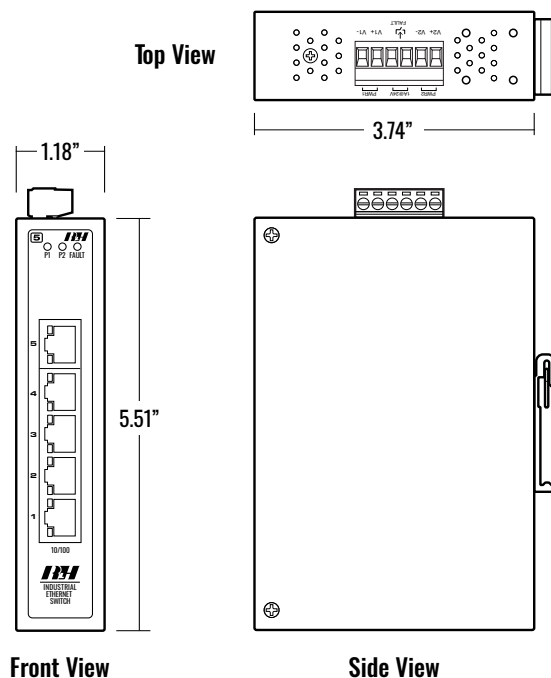
### Features

- Hardened design with wide operating temperature range  
-40°F to 167°F (-40°C to 75°C)
- 5 ports of 10/100Mbps Fast Ethernet
- 12~48VDC dual redundant power inputs
- Built-in alarm relay for redundant power loss
- 2kV surge protection
- DIN rail & wall mountable
- Rugged case rated to IP-30
- UL Class 1, Division 2 Hazardous Location Certified
- Meets NEMA TS2 Requirements for Traffic Control
- TAA, NDAA, REACH, CE, FCC Class A, and RoHS Compliant
- 5 Year Warranty



Industrial 5 Port Unmanaged Ethernet Switch

### Dimensions





## General Specifications

|                              |   |
|------------------------------|---|
| <b>Data Process</b>          | Store and Forward, CSMA/CD  |
| <b>Standards</b>             | <b>IEEE 802.3</b> 10BaseT (Ethernet), <b>IEEE 802.3u</b> 100BaseTX (Fast Ethernet), <b>IEEE 802.3x</b> (Flow Control) |
| <b>Transfer Rate</b>         | 14,880pps - Ethernet  |
|                              | 148,800pps - Fast Ethernet  |
| <b>Transmission Distance</b> | Up to 100 Meters/328 Feet over twisted pair cabling   |
| <b>Transmission Speed</b>    | Up to 100Mbps   |
| <b>MAC Address</b>           | 2k table size   |
| <b>Ethernet Interface</b>    | Auto-MDI/MDIX, Auto-Negotiation, Full/Half-Duplex Support   |
| <b>Ethernet Ports</b>        | (5) 10/100Mbps  |
| <b>LED Status Indicators</b> | Power 1 (P1), Power 2 (P2), Redundant Power Loss (Fault)  |
|                              | Ethernet Ports (Link and Activity)  |
| <b>Power Protection</b>      | Over Current, Polarity Protection   |
| <b>Power Input</b>           | 12~48VDC redundant power inputs (6 position pluggable terminal block)   |
| <b>Max Power Consumption</b> | 3 Watts   |
| <b>Fault Alarm</b>           | 1 Relay output rated for 24VDC @ 1 Amp  |
| <b>Operating Temperature</b> | -40°F to 167°F (-40°C to 75°C)  |
| <b>Storage Temperature</b>   | -40°F to 185°F (-40°C to 85°C)  |
| <b>Operating Humidity</b>    | 5% to 95% (Non-Condensing)  |
| <b>Construction</b>          | Powder coated IP30 steel housing  |
| <b>Case Dimensions</b>       | 1.18" (W) x 3.74" (D) x 5.51" (H), (30mm x 95mm x 140mm) *Not including dust caps or DIN bracket                      |
| <b>Mounting Style</b>        | Standard DIN rail (TS-35) or wall mount *Wall mount brackets included   |
| <b>EMI/EMS</b>               | FCC Class A, CE EN61000-4-2/3/4/5/6/8/11/12, CE EN61000-6-2, CE EN61000-6-4   |
| <b>Stability Testing</b>     | IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)  |
| <b>Compliance</b>            | UL Class 1/Div.2, FCC Class A, CE, RoHS, NEMA TS2, ANSI/ISA 12.12.01, TAA, NDAA                                       |
| <b>Warranty</b>              | Limited 5 years      Visit <a href="http://www.fiberopticlink.com">www.fiberopticlink.com</a> for warranty details    |

## Ordering Information

| Description  | Part Number    |
|--|----------------|
| Industrial 5 Port Unmanaged Ethernet Switch, Power: 12-48VDC | <b>ETH-5-1</b> |

## Contact

|                       |  |              |
|-----------------------|--|--------------|
| <b>By Mail:</b>       | ATTN: Sales  |              |
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| <b>By Email:</b>      | <a href="mailto:info@fiberopticlink.com">info@fiberopticlink.com</a> |              |
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## Support

|                  |  |
|------------------|--|
| <b>By Email:</b> | <a href="mailto:support@fiberopticlink.com">support@fiberopticlink.com</a> |
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