



## EISL8-100T Ethernet Switch

### Cost Effective, 10/100 Mbps, Compact Size

The EISL8-100T Switch is an eight-port unmanaged Ethernet switch that provides 100 Mbps performance on all ports to accommodate a range of control devices and workstations commonly found in an automation project. For 10 Mbps legacy devices, the switch will automatically reduce its port-speed accordingly. This low-cost compact unit utilizes a rugged metal enclosure and is intended for installation in control panels using DIN-rail mounting.

This is a plug-and-play Ethernet switch that requires no configuration. All ports automatically configure

their data rate and duplex using the Auto-negotiation protocol. Depending on the capability of the link partner, communication is set at 10 or 100 Mbps and at either half- or full-duplex. Each port accommodates either a straight-through or crossover cable using the Auto-MDIX protocol. The unit is powered from a choice of low-voltages (AC or DC). Redundant power connections are provided for back-up power schemes. LEDs assist in troubleshooting.

#### EISL8-100T Ethernet Switch Features...

- Plug-and-Play operation
- 10BASE-T/100BASE-TX
- Shielded RJ-45 connectors
- Auto-negotiation of speed and duplex
- Auto-MDIX supports cable inversion
- DIN-rail mounting
- Rugged metal enclosure
- Diagnostic LEDs
- Enhanced EMC compliance
- CE mark
- 24 VAC/VDC powered



**EISL8-100T**

## Overview

The switch is intended for control panel installations where DIN-rail space is at a premium by requiring a width of only 41 mm of rail space. A metal DIN-rail clip attached to the aluminium enclosure can survive the toughest installation.

The switch can be powered from either a 10–36 VDC or 24 VAC ( $\pm 10\%$ ) source. Its half-wave rectified low-voltage power supply allows the sharing of power with other 24 VAC/VDC control devices from a common power supply. With redundant power

connections, a backup power scheme can be supported. A removable power connector facilitates the servicing of the unit.

LEDs built into the connector indicate link and activity on each of the eight ports.

The switch is Industrial Control Equipment. It carries the CE Mark. It is RoHS compliant.





## Specifications

<b>Power Requirements</b>	10–36 VDC 1 W or 24 VAC ±10% 3 VA 47–63 Hz		
<b>Operating Temperature</b>	0°C to 60°C		
<b>Storage Temperature</b>	-40°C to +85°C		
<b>Relative Humidity</b>	10–95%, non-condensing		
<b>Protection</b>	IP30		
<b>Mounting</b>	TS-35 DIN-rail		
<b>Weight</b>	1 lb (0.45 kg)		
<b>Ethernet Communications</b>	IEEE 802.3 10/100 Mbps data rate Using RJ-45 connectors, 100 m (max)		
<b>LEDs</b>	Power	Green	= power OK
	Top LEDs	Green	= 10/100Mbps Mbps communication established Flashing Green = Data transmissions occurring

## Regulatory Compliance

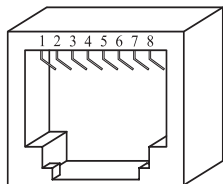
CE Mark; RoHS; Industrial Control Equipment



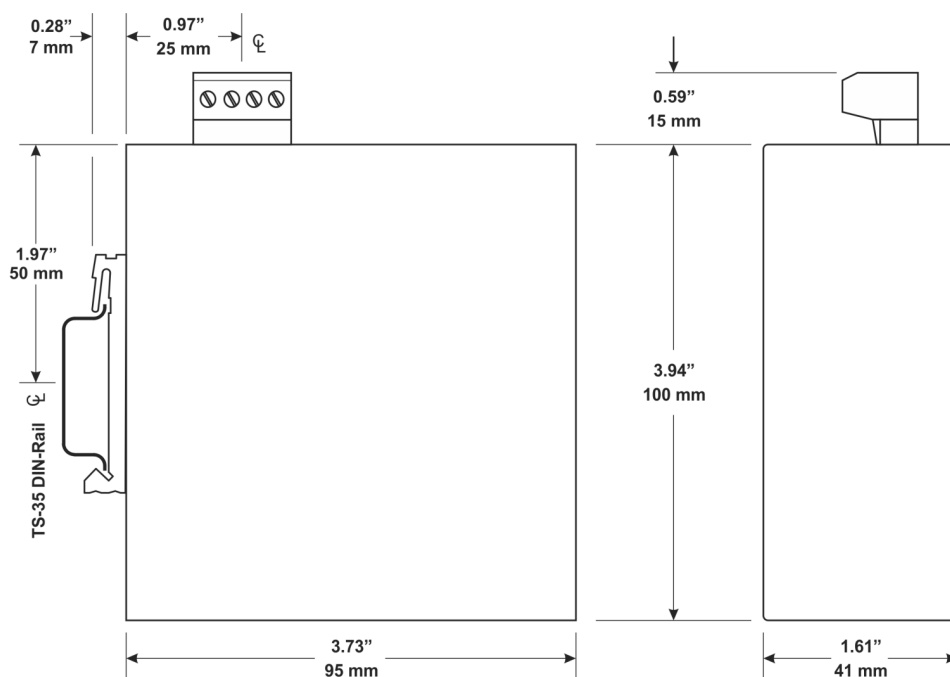
## RJ-45 Connector Pin Assignments

Pin	Function
1	TD+
2	TD-
3	RD+
4	Not Used
5	Not Used
6	RD-
7	Not Used
8	Not Used

## MDI and MDIX



## Mechanical Drawing



## Power Considerations

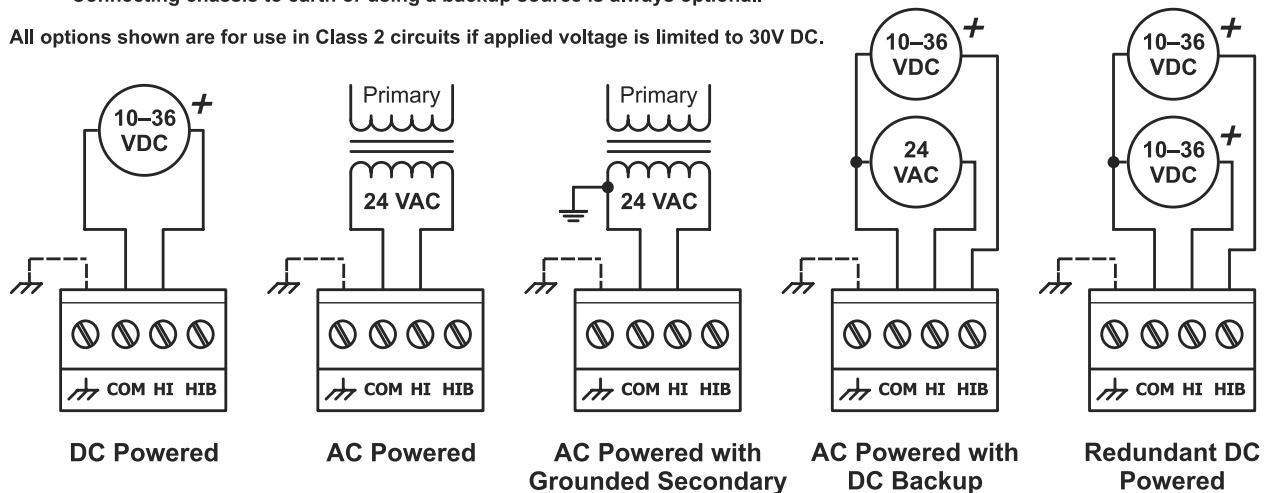
Applied voltage must be in the specified range and deliver a current commensurate with power consumption. The recommended size for solid power conductors is 16–20 AWG; and for stranded conductors use 16–18 AWG. Zero

volts (COM) is isolated from chassis (earth). Input connections are reverse-polarity protected.

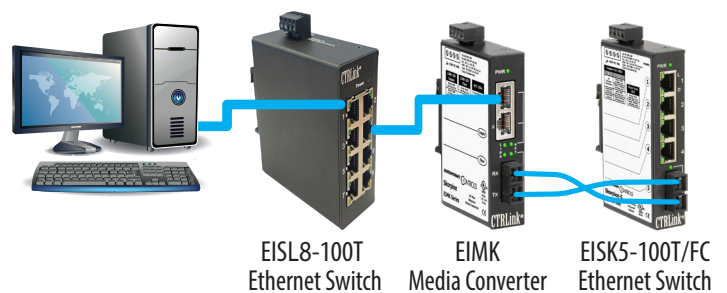
**Input power: 10–36 VDC or 24 VAC  $\pm$  10%, 47–60 Hz.**

Connecting chassis to earth or using a backup source is always optional.

All options shown are for use in Class 2 circuits if applied voltage is limited to 30V DC.



## Typical Switch Installations



## Ordering Information

Model	Description
EISL8-100T	8-Port 10/100Mbps Switch

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