



## IES-0910

8 FE + 1 MM SC Unmanaged Switch -20 to 60, DIN-rail

### Quick Installation Guide

v1.00 - 1206

## Overview

LevelOne IES-0910 Industry Ethernet Switch provides 8 ports of 10/100Base-TX Ethernet plus 1 port 100FX Multimode SC fiber to enable high speed network at mission-critical environment. This device is designed to be mounted on an industry standard DIN-rail, plus the clearly visible status LEDs provide simple monitoring of port link activity.

### Cost Effective

This device operates under -20 to 60 Celsius (-4 to 140 Fahrenheit) temperature that offers optimal suitability for industrial applications at low cost while maintaining all components built to withstand harsh environment applications without compromise reliability and stability.

### Plug & Play

This unmanaged Industrial Ethernet Switch is designed for the demanding industrial environments at businesses in need of instant connectivity with no setup or configure required, truly plug and play.

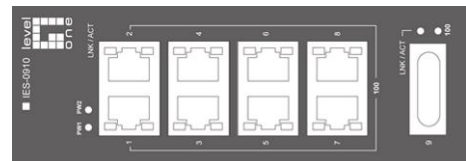
## Features

- Meets IEC61000-6-2 EMC Generic Standard Immunity for industrial environment.
- Support 802.3/802.3u/802.3x. Auto-negotiation: 10/100Mbps, Full/half-duplex; Auto MDI/MDIX.
- 100Base-FX: Multi mode SC or ST type; Single mode SC or ST type; WDM Single mode SC type.
- Support 2048 MAC addresses. Provides 768K bits memory buffer.
- Alarms for power failure by relay output.
- Operating voltage and Max. current consumption: 1.1A @ 12VDC, 0.55A @ 24VDC. Power consumption: 13.2W Max.
- Power Supply: Redundant DC Terminal Block power inputs or 12VDC DC JACK (Optional) with 100-240VAC external power supply.
- Operating temperature ranges from -20°C to 60°C.
- Supports DIN-Rail, Panel, or Rack Mounting installation.

## Package Contents

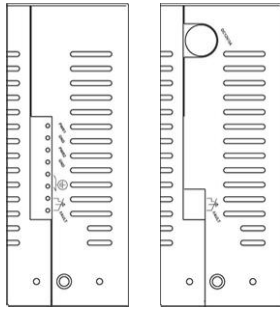
- IES-0910
- Quick Installation Guide
- CD User Manual

## LED Status



LED	Status	Description
PW 1,2 (Green)	Steady	Power On
	Off	Power Off
<b>10/100Base-TX or 100Base-FX/BX</b>		
LNK/ACT (Green)	Steady	Network connection is established
	Flashing	Transmitting or Receiving data
100 (Yellow)	Steady	Connection at 100Mbps speed
	Off	Connection at 10Mbps speed

## Power Input

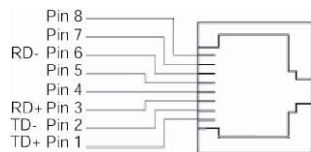


Terminal Block	PW1	+	12 – 30VDC
		-	Power Ground
	PW2	+	12 – 30VDC
		-	Power Ground
		<b>Earth Ground</b>	
		<b>Relay Output</b>	1A @ 12 - 30VDC
1. The relay contact opens if Power1 or Power2 falls			

**Note:** 12VDC DC Jack Input type is **optional**

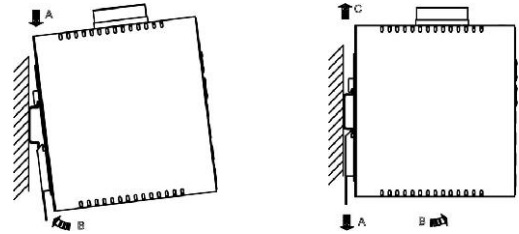
## 10/100Base-TX Connector

The following lists the pin-out of 10/100Base-TX ports.



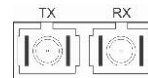
Pin	Standard Port	Uplink Port
1	Output Transmit Data +	Input Receive Data +
2	Output Transmit Data -	Input Receive Data -
3	Input Receive Data +	Output Transmit Data +
4	NC	NC
5	NC	NC
6	Input Receive Data -	Output Transmit Data -
7	NC	NC
8	NC	NC

## DIN Rail Mount



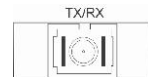
- **Assembly:** Place the switch on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it audibly snaps into place
- **Start-up:** Connect the supply voltage to start up the switch via the terminal block (or DC JACK)
- **Dismantling:** Pull out the lower edge and then remove the switch from the DIN rail.

## 100Base-FX Connection



The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.

## WDM 100Base-BX Connection



Only one optical fiber is required to transmit and receive data