



IFS-0501

5-Port Fast Ethernet Industrial Switch

Quick Installation Guide



v1.0

Overview

The LevelOne IFS-0501 Industrial Fast Ethernet Switch provides 5 ports at 10/100M TX to enable high speed network in mission-critical environments. With an industrial standard DIN-rail mount, this switch can be installed in a cabinet, and clearly visible status LEDs provide simple monitoring of port link activity. The switch is housed in a solid metal case rated at IP30, keeping it safe from dust, vibration, heat and humidity, while an operational temperature range of -40°C to +75°C makes it suitable for deployment in almost any environment.

High Reliability

All components are built to withstand harsh environment applications without compromise where humidity, temperature variation and even shock vibration are concerns, including Electric & Utility, Critical Infrastructure, Transportation and Surveillance Security. This device operates under -40 to 75 Celsius (-40 to 167 Fahrenheit) temperature.

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 NEMA TS1/TS2 Environmental requirements such as temperature, shock, and vibration for traffic control equipment
- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment
- Supports 1024 MAC addresses. Provides 1M bits memory buffer
- Store-and-forward mechanism. Full wire-speed forwarding rate.
- Power Supply: 9-56VDC Terminal Block power input.
- 3.76W power consumption 48VDC full load
- -40°C to 75°C (-40°F to 167°F) operating temperature range.
- Tested for functional operation @ -40°C to 85°C (-40°F to 185°F).
- Metal case design and compliant with IP30 standard

Package Contents

- IFS-0501
- Din rail*1, wall mount*2, terminal block*1, screw*4
- Quick Installation Guide

LED Status



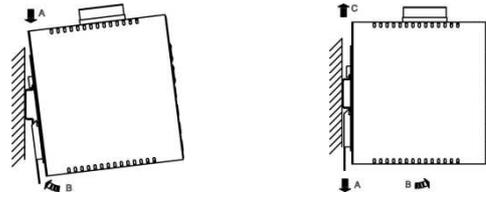
LED	Status	Description
PWR 1, 2	ON	Power On
	OFF	Power Off
SW (relay)	ON	both PW1 and PW2 are connected
	OFF	only PW1 or PW2 is connected
10/100/Base-TX		
LNK(1 - T5)	ON	TX link is detected
	OFF	TX port is not detected
	Flashing	TX port is active

Power Input



Terminal Block	PW1	+	44-56VDC
		-	Power Ground
	PW2	+	44-56VDC
		-	Power Ground
		Relay Output	1A @ 24VDC

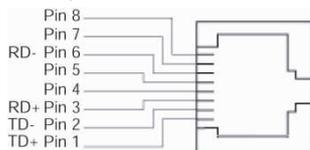
DIN Rail Mount



- 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.

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