IFS-0503

5-Port Fast Ethernet Industrial Switch,

1 Port SC Single-Mode Fiber, 30km

Quick Installation Guide

v1.0

Overview

The LevelOne IFS-0503 Industrial Fast Ethernet Switch provides four ports at 10/100M TX and one single-mode fiber port at 100M FX SC to enable high speed networks 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 single-mode fiber port allows for large-scale connections of up to 30km. 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℃ to +75℃ makes it suitable for deployment in a lmost 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
- Provides one Port SC Single-Mode Fiber with a maximum networking range of 30km.
- 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℃ to 75℃ (-40℉ to 167℉) operating temperature range.
- Tested for functional operation @ -40℃ to 85℃ (-40℉ to 185℉).
- Metal case design and compliant with IP30 standard

Package Contents

- IFS-0503
- Din rail*1, wall mount*2, terminal block*1, screw*4
- Quick Installation Guide

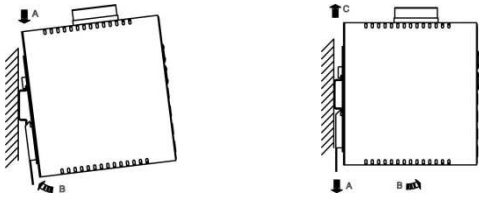
LED Status

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 ~ 4)	ON	TX link is detected
	OFF	TX port is not detected
	Flashing	TX port is active
Fiber		
F5	ON	FX fiber is detected
	OFF	FX fiber is not detected
	Flashing	FX fiber is active

Power Input

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

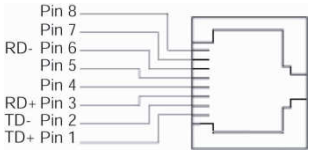
DIN Rail Mount



- 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