

## SWITCH 2005TX Quick Installation Guide

### 1. Overview

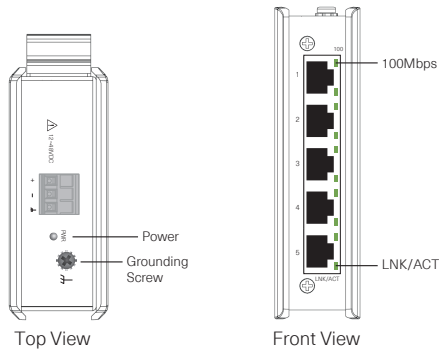
SWITCH 2005TX Unmanaged Industrial Ethernet Switch is specially designed to expand reliable Ethernet connectivity to factory floors and outdoor environments with extreme temperature and climatic conditions.

SWITCH 2005TX is equipped with 5 x 10/100 RJ45 Ports enclosed in IP30 housing.

### 2. Package Checklist

- SWITCH 2005TX Switch x 1

Panel view



### 3. Mounting and Dismounting to DIN-Rail



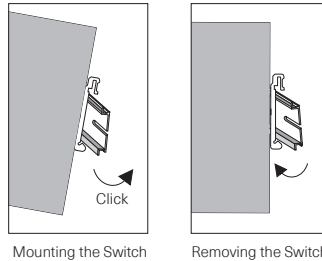
**ATTENTION:** The SWITCH 2005TX is an open type device and SWITCH 2005TX shall be DIN-Rail mounted in cabinet or enclosure and the ambient temperature should not exceed 75 °C.

#### Mounting the switch

Place the SWITCH 2005TX on the DIN rail from above using the slot, push the front of the switch toward the mounting surface until it snaps into place with a click sound.

#### Dismounting the switch

Press the switch from top and pull out the lower edge of the switch and then remove the switch from the DIN rail.



### 4. Grounding the switch SWITCH 2005TX

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI).

Step 1: Run the ground connection from the ground screw to the grounding surface prior to connecting devices.

Step 2: Connect the ground connection from the terminal block to the grounding surface prior to connecting device.



**ATTENTION:** This product is intended to be mounted to a well-grounded mounting surface such as a metal panel.

### 5. Wiring requirements



**WARNING:** Safety measures should be taken before connecting the power cable. Turn off the power before connecting modules or wires. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct voltage. DO NOT use a voltage greater than what is specified on the product label. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If current exceeds the maximum rating, the wiring can overheat causing serious damage to your equipment.

Please read and follow these guidelines:

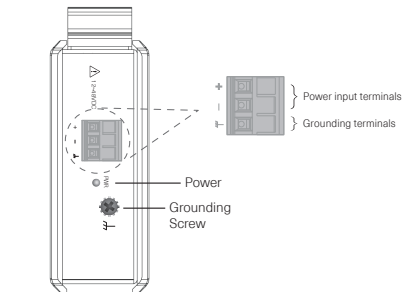
- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross make sure the wires are perpendicular at the intersection point  
NOTE: Do not run signal or communications wiring and power wiring through the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately
- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring that shares similar electrical characteristics can be bundled together
- You should separate input wiring from output wiring
- We advise that you label the wiring to all devices in the system

### 5.1 Wiring Power Input

#### 5.1.1 SWITCH 2005TX with 3pin terminal block

Check the polarity while connecting.

Top view of Terminal Block is shown in the figure below:



**Caution:**

- Use copper conductors only
- Wiring cable temperature should support at least 105°C
- Tighten the wire to a torque value 20N
- The wire gauge for the terminal block should range between 0.2 to 2.5 mm<sup>2</sup>

To insert power wire and connect the 12 to 48 V DC at a maximum of 0.15 A DC power to the power terminal block, follow the steps below:

- Use flat-head screw driver to loosen the wire-clamp screws
- Insert the negative/positive DC wires into the ( - /+) terminals, respectively
- Tighten the wire-clamp screws to prevent the wires from loosening



**ATTENTION:**

Please use a power supply from 12 to 48 V DC, the device power shall be supplied by SELV circuit.

### 5.1.2 Cabling RJ45

Connect one end of an Ethernet/RJ45 cable into Ethernet port of SWITCH 2005TX and other end to attached networking device.

- Ports 1-5 of the switch support Fast Ethernet (10/100Base-T RJ45 Ports)
- All the RJ45 ports on the SWITCH 2005TX support auto negotiation and auto MDI/MDI-X to eliminate the need for crossover cabling

Note: Category 5e cable or above should be used.

### 6. LED Indicators

PWR (Green)	Illuminated	Power On by terminal block PWR
	Off	Terminal block PWR fails or is not available
100 (Green)	Illuminated	Link speed at 100 Mbps
	Blinking	Data is transmitting / receiving
	Off	Link speed at 10 Mbps or no link
LNK/ACT (Green)	Illuminated	Copper port link-up
	Blinking	Data is transmitting / receiving
	Off	No link or link failed

### 7. Environmental limits

Operating Temperature	-40°C ... 75°C
Storage Temperature	-40°C ... 85°C
Altitude	Up to 2000m
Ambient relative humidity	5 to 95% (non-condensing)



**ATTENTION:**

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received including interference that may cause undesired operation



**ATTENTION:**

If the equipment is used in a manner not specified by SALZ Automation, the protection provided by the equipment may be impaired.

Address of the manufacturer:

SALZ Automation GmbH  
32105 Bad Salzufflen, Germany  
Email: support@salz-automation.com

Please scan for more information:

