## EŇ515 Ewitch <br> Quick Installation Guide

## :Introduction

The TES-180-M12 unmanaged Ethernet switche is designed for industrial applications, such as rolling stock, vehicle, and railway applications. The switch boasts EN50155 compliance and M12 connectors to ensure tigh
and robust connections, and guarantee reliable operation against and robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. With eight
10/100Base-T $(X)$ ports, the switch provides a wide operating temperature range from $-40^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$.

## :- Package Contents

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for ssistan

| Contents | Pictures | Number |
| :--- | :---: | :---: |
| TES-180-M12 |  |  |
| Q1G |  | 1 |

## :Preparation

Before you begin installing the device, make sure you have all of the package
contents available and a PC with Microsoft Internet Explorer 6.0 or later, for contents available and a PC with Microsoft Internet Explorer 6.0 or later, for

- Safety \& Warnings

Elevated Operating Ambient: If installed in a closed environment, make sur the operating ambient temperature is compatible with the maximum ambient temperature (Tma) specified by the manufacture

1. Reduced Air Flow: Make sure the amount of a ir flow required for safe operation the equipment is not compromised during installation
Mechanical Loading: Make sure the mounting of the equipment is not in a
.
Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the enffect theat overloading of of the e circuits
might have on overcurrent protection and supply wiring. Appropriate might have on overcurrent protection and supply wiring. Appropriate
consideration of equipment nameplate ratings should be used when consideration of equipment nameplate ratings should be used when addressing
his concern.

- Dimension

- Panel Layouts



## 1. Ethernet port

2. Power port
3. LNK/ACT LED for LAN ports
4. LNK/ACT LED for LAN ports
5. Duplex/ Collision LED for LAN ports
6. Power status LED

## -Installation

- Wall-mount

The device can be fixed to the wall. Follow the steps below to instal the device on the wall Step 1: Hold the device upright against the wall
Step 2: Insert four screws through the large opening of the keyhole-shaped apertures at Step 2: Insert four screws through the large opening of the keyhole-shaped
top and bottom of the unit and fasten the screw to the wall with a screwdriver. Step 3: Slide the device downwards and tighten the four screws for added stability.

Instead of screwing the screws in all the way, it is advised to
leave a space of about 2 mm to allow room for sliding the switch leave a space of about mm to to allow room for sliding the switch
between the wall and the screws.

## EN50155 8-port unmanaged

 Ethernet switch- Wiring

Power port pinouts
The device supports power supply in M 125 -pin female connector on the front panel for the dual power inputs.
Step 1: Insert a power cable tother power connector on the device.
Step 2: Rotate the outer ring of the cable connector until a snug fit is
achieved. Make sure the connection is tight.

- Network Connection

The switch has eight 10/100Base-T(X) Ethernet ports in the form of M12 connector. Depending on the ink type, the switchuses
servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

## :- Configurations

After installing the switch and connecting cables, start the device by turning on power. The green power LED should turn on. Please refer to the following tablet

| LED | Color | Status | Description |
| :---: | :---: | :---: | :---: |
| PWR | Green | On | DC power module is acivated |
| 10/1008ase-T( C ) |  |  |  |
| LNK/ACT | Green | On | Port is Linked |
|  |  | Blinking | Transmiting data |
| Duplex / Collision | Amber | On | Porti is in duplex mode |
|  |  |  |  |



M12/4P Pin Definition
For pin assignments of the LAN ports, please refer to the following tables.


Quick Installation Guide
:Specifications


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ORing
c
ORing Industrial Networking Corp.
\ML
```

