## Quick Installation Guide

## : Introduction

The IES-180B is a mini type unmanaged Ethernet switch with eight 10/100Base-T $(X)$ ports. With a compact size, the device can be installed switch can be operated in an operating temperature ranging from $-40^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$.

## :- Package Contents

The IES-180B series are shipped with the following items. If any of these items is missing or damaged, please contact your customer service

| Contents | Pictures | Number |
| :--- | :---: | :---: |
| IES-180B |  | $\mathrm{x}_{1}$ |
| DIN-rail Kit |  | $\mathrm{x}_{1}$ |
| Wall-mount Kit |  |  |
| QIG |  | x 2 |

## Preparation

Before you begin installing the switch, make sure you have all of the package contents available.

## - Safety \& Warnings

Elevated Operating Ambient: If installed in a closed cabinet, the operating ambient temperature of the rack environment may be greater than room ambien. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified
by the manufacturer. by the manufacture
$\triangle$
Reduced Air Flow: Installation of the equipment should be such that the
amount of air flow required for safe operation of the equipment is not amount of air flomplomised.
compron
Mechanical Loading: Mounting of the equipment in the din-rail should be such that a hazardous condition is not achieved due to uneven mechanical aang.
Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate onsideration of equipment nameplate ratings should be used when addressing his concern.

- Dimension (Unit: mm)

- Panel Layouts

Front Panel


1. PWR1 LED
2. PWR2 LED
3. PWR2 LED
4. LAN port link/act indicator
5. LAN port duplex/ collision
indicator

6. Wall-mount screw holes
7. Terminal block

Real Panel


## Industrial Unmanaged Switch

## Installation

- DIN-rail Installation

Step 1: Slant the switch and screw the Din-rail kit onto the back of the switch, right in the
midale of the back panel.
Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch clicks into the rail firmly.


## Wall-mounting

Step 1: Screw the two pieces of wall-mount kits onto both sides of the switch. A total of eight screws are required, as shown below.
, with wall mount plates attached, as a guide to mark the correct locations of wall-mount screws.
Step 3: Insert screw through the large parts of the keyhole-shaped apertures, and then slide the switch downwards. Tighten the four screws for added stability.


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Quick Installation Guide

- Network Connection

The IES-180B has standard gigabit Ethernet ports. According to the link type, the
switch uses CAT 3, .5.5e UTP cables to switch uses CAT 3,4,5,5e UTP cables to connect to any other network devices
(PCs, servers, wwitches, routers, or hubs). Please refer to the following table for (PCs, servers, switches, routers, or hubs). Please refer to the following table for
cable specifications.


- Wiring

The switch supports dual redundant power supplies which ar
located on the 4 -pin terminal block
STEP 1. Insert the negative/positive wires into the V- $/ \mathrm{V}+$
terminals, respectively
terminals, respectively.
STEP 2: To keep the DC wires from pulling loose, use a small trat-blade screwdriver to tighten the
front of the terminal block connector.

## :Configurations

After installing the IES-180B and connecting cables, start the switch by turning on power. The green power and LEDs should turn on.

- LED indication table

| LED | Color | status | Descripition |
| :---: | :---: | :---: | :---: |
| PW1 | Green | on | DC power module 1 activated |
| PW2 | Green | on | DC power module 2 activated |
| Lnk/act | Green | on | Portis inined |
|  |  | Binking | Transititing data |
| Duplex/Collision | Amber | on | Port is operating in full duplex mode |
|  |  | Blinking | Port is operating in half duple mode and collision occurs |
|  |  | off | Port is operating in half duplex mode and no collision occurs |

## Specifications

| ORing Switch Model | IES-180B |
| :---: | :---: |
| Physical Ports |  |
| 10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX | 8 |
| Technology |  |
| Ethernet Standards | IEEE 802.3 for 10 Base-T IEEE 802.3 for 100Base-TX IEEE 802.3x for Flow control |
| MAC Table | 2048 MAC addresses |
| Processing | Store-and-Forward |
| LED Indicators |  |
| Power indicator | Green: Power LED $\times 2$ |
| 10/100Base-T(X) RJ45 port indicator | Green for port Link/Act Amber for Duplex/Collision |
| Power |  |
| Input power | Dual $12 \sim 48$ VDC power inputs at 4-pin terminal block |
| Power consumption(Typ.) | 4 Watts |
| Overload current protection | Present |
| Reverse polarity protection | Present |
| Physical Characteristic |  |
| Enclosure | IP-30 |
| Dimension ( $\mathrm{W} \times \mathrm{D} \times \mathrm{H}$ ) | 41 (W) $\times 90$ (D) $\times 95$ (H) mm ( $1.61 \times 3.54 \times 3.74$ inch $)$ |
| Weight (g) | 383 g |
| Environmental |  |
| Storage Temperature | -40 to $85^{\circ} \mathrm{C}\left(-40\right.$ to $\left.185^{\circ} \mathrm{F}\right)$ |
| Operating Temperature | -40 to $70^{\circ} \mathrm{C}\left(-40\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Operating Humidity | 5\% to 95\% Non-condensing |
| Regulatory Approvals |  |
| Emi | FCC Part 15, CISPR (EN55022) Class A |
| ems | EN61000-4-2 (ESD), <br> EN61000-4-3 (RS), <br> EN61000-4-4 (EFT), <br> EN61000-4-5 (Surge), <br> EN61000-4-6 (CS), <br> EN61000-4-11 |
| Shock | IEC60068-2-27 |
| Free Fall | IEC60068-2-32 |
| vibration | IEC60068-2-6 |
| Safety | En60950-1 |
| Warranty | 5 years |

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