-Switch

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## Quick Installation Guide

# **IES-180B**

## 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 easily without taking up much space. Featuring an IP-30 housing, the switch can be operated in an operating temperature ranging from -40°C to 70°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 representative for assistance.

Contents	Pictures	Number
IES-180B		X 1
DIN-rail Kit	A CONTRACTOR	X 1
Wall-mount Kit		X 2
QIG		X 1

## **Preparation**

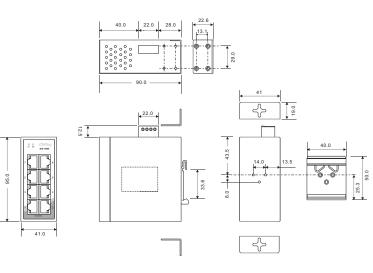
Before you begin installing the switch, make sure you have all of the package contents available.

## Safety & Warnings

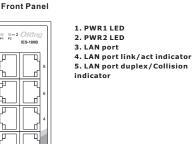
- Elevated Operating Ambient: If installed in a closed cabinet, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- 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 compromised
- Mechanical Loading: Mounting of the equipment in the din-rail should be such that a hazardous condition is not achieved due to uneven mechanical loading.

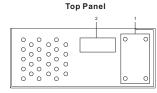
Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

## Dimension (Unit: mm)







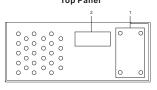


1. Wall-mount screw holes 2. Terminal block

## Real Panel

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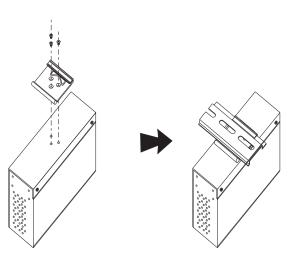


## **Industrial Unmanaged Switch**

## Installation

## DIN-rail Installation

Step 1: Slant the switch and screw the Din-rail kit onto the back of the switch, right in the middle 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

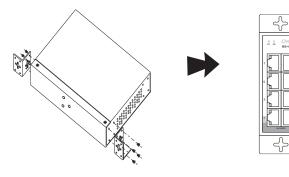


## Wall-mounting

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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. Step 2: Use the switch, 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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switch

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## Network Connection

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

Note: "+" and "-" signs represent the polarity of the wires that

## **Cable Types and Specifications:**

Cable	Туре	Max. Length	Connector
10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45

#### For pin assignments for the cables, please refer to the following table.

make up each wire pair.

# 10/1008sse-T(X) RJ-4S Pin Number Assignment 1 TD+ 2 TD 3 RD+ 4 Not used 5 Not used 6 RD 7 Not used 8 Not used

## Wiring

The switch supports dual redundant power supplies which are located on the 4-pin terminal block.	
STEP 1: Insert the negative/positive wires into the V-/V+ terminals, respectively.	

h are	PW			
	V2+	V2-	V1+	V1

STEP 2: To keep the DC wires from pulling loose, use a small flat-blade screwdriver to tighten the wire-clamp screws on 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	Description
PW1	Green	On	DC power module 1 activated
PW2	Green	On	DC power module 2 activated
LNK/ACT	Green	On	Port is linked
LINK/ACT	Blinking	Blinking	Transmitting data
		On	Port is operating in full duplex
	-		mode
Duplex/Collision		Blinking	Port is operating in half duplex
Duplex/Collision	Amber	DITIKITY	mode and collision occurs
		Off	Port is operating in half duplex
		Off	mode and no collision occurs

# IES-180B

## **Industrial Unmanaged Switch**

## 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 10Base-T IEEE 802.3u 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 x2	
10/100Base-T(X) RJ45 port indicator	Green for port Link/Act Amber for Duplex/Collision	
Power		
Input power	Dual 12~48 VDC power inputs at 4-pin terminal block	
Power consumption(Typ.)	4 Watts	
verload current protection Present		
everse polarity protection Present		
Physical Characteristic		
Enclosure	IP-30	
Dimension (W x D x H)	41 (W) x 90 (D) x 95 (H)mm (1.61 x 3.54 x 3.74 inch)	
Weight (g)	383 g	
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-40 to 70°C (-40 to 158°F)	
Operating Humidity	5% to 95% Non-condensing	
Regulatory Approvals		
EMI	FCC Part 15, CISPR (EN55022) class A	
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
Warranty	5 years	

