



# IES-180B

## Industrial 8-port mini type unmanaged Ethernet switch with 8x10/100Base-T(X)

### Features

- Supports 8 ports 10/100 Base-T(X)
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store and forward transmission
- Supports flow control
- Compact size for easily installation
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled



### Introduction

IES-180B is unmanaged Ethernet switch with 8x10/100Base-T(X) ports. With very compact size of housing, you can install IES-180B easily. In addition, IES-180B is with rigid IP-30 housing design and can operate under harsh environment. The extended operating temperature range from -40 °C to 75°C is ready and can satisfy most requirement of operation.

### Practical Operation

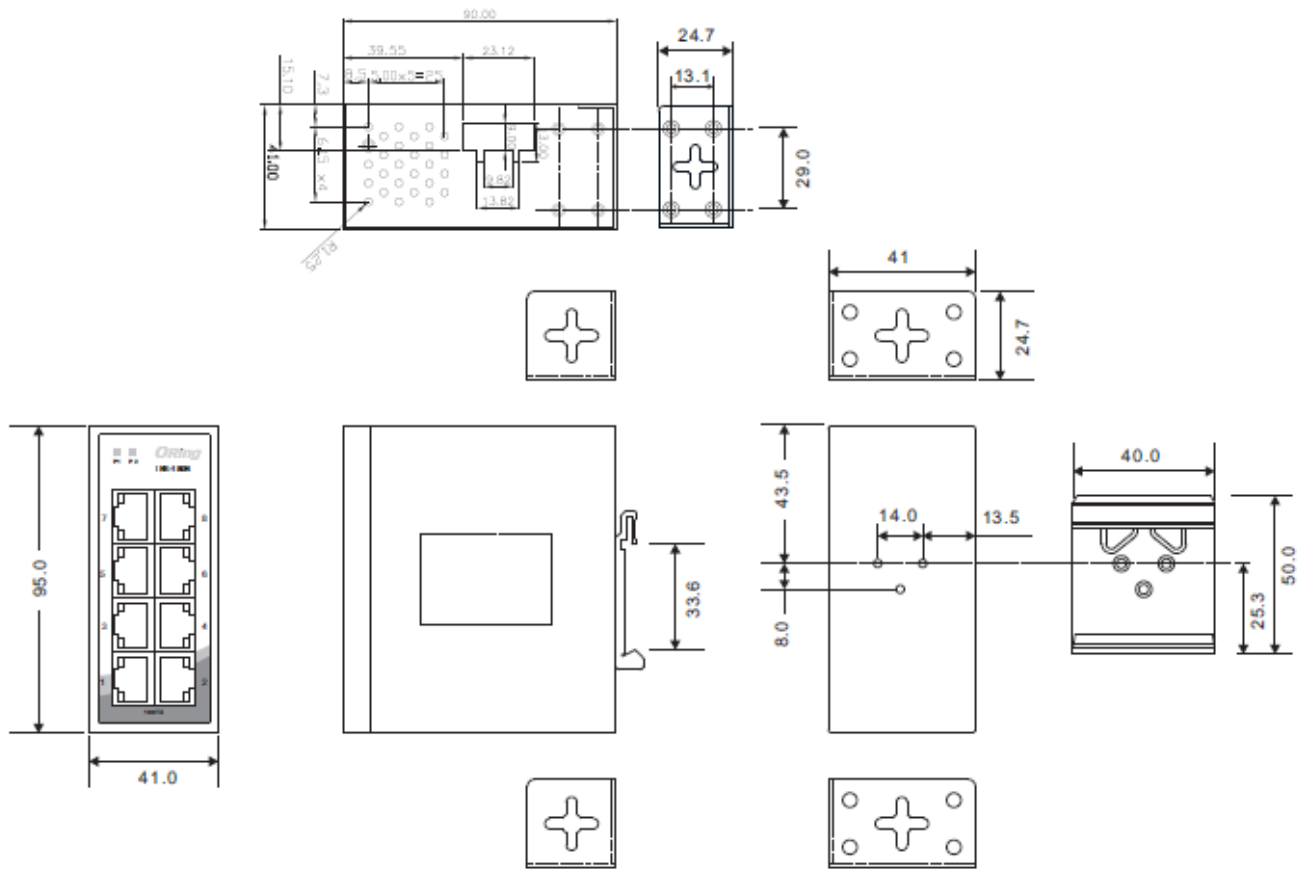
IES-180B can be used in connecting several Ethernet devices like Ethernet I/O, IP-Camera or other Ethernet switches. In addition, its mini size enables easily installation and minimize space requirement.



Connections of Ethernet devices

**Dimension**

Unit = mm (Tolerance  $\pm 0.5$ mm)



## Specifications

|   |  |
|---|--|
| <b>ORing Switch Model</b>                       | IES-180B   |
| <b>Physical Ports</b>                           |  |
| 10/100 Base-T(X) Ports in RJ45<br>Auto MDI/MDIX | 8  |
| <b>Technology</b>                               |  |
| Ethernet Standards                              | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3x for Flow control  |
| MAC Table                                       | 1K MAC address   |
| Processing                                      | Store-and-Forward  |
| Switch Latency                                  | <7us   |
| Switch Bandwidth                                | 1Gbps  |
| Packet buffer size                              | 448K bits  |
| <b>LED indicators</b>                           |  |
| Power Indicator                                 | Green for PWR1, PWR2   |
| 10/100Base-T(X) RJ45 Port Indicator             | Upper for Link/Act indicator, Green for port Link/Act.<br>Lower for speed indicator, Amber for 100Mbps, OFF for 10Mbps   |
| <b>Power</b>                                    |  |
| Input Power                                     | Dual 12~48 VDC voltage power input on 4-pin terminal block   |
| Power Consumption (Typ.)                        | 4W   |
| Overload Current Protection                     | Present  |
| Reverse Polarity Protection                     | Present  |
| <b>Physical Characteristic</b>                  |  |
| 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)                                      | 334 g  |
| <b>Environmental</b>                            |  |
| Storage Temperature                             | -40 to 85°C (-40 to 185°F)   |
| Operating Temperature                           | -40 to 75°C (-40 to 167°F)   |
| Operating Humidity                              | 5% to 95% Non-condensing   |
| <b>Regulatory approvals</b>                     |  |
| EMC   | CE EMC (EN 55024, EN 55032), FCC Part 15 B   |
| EMI   | EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A   |
| EMS   | EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11 (DIP)) |
| Shock   | IEC60068-2-27  |
| Free Fall                                       | IEC60068-2-31  |
| Vibration                                       | IEC60068-2-6   |
| Safety  | EN60950-1  |
| MTBF  | 1390019 hrs  |
| <b>Warranty</b>                                 | 5 years  |

H/W version: V2

## Ordering Information

**IES-1ABB**

| Code Definition | 10/100Base-T(X) Port Number | Additional Port Number |
|-----------------|-----------------------------|------------------------|
| Option          | - 8: 8 ports                | - 0: 0 port            |

| Available Model | Model Name | Description  |
|-----------------|------------|--|
|                 | IES-180B   | Industrial 8-port mini type unmanaged Ethernet switch with 8x10/100Base-T(X) |

## Packing List

- IES-180B x 1
- Wall-mount Kit x 1
- Quick Installation Guide x 1
- Din-Rail Kit x 1

## Optional Accessories

- PAE-121000, 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, EU plug
- DR/SDR/DRP Series DIN-Rail power supply
- PAA-121000, 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, US plug

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