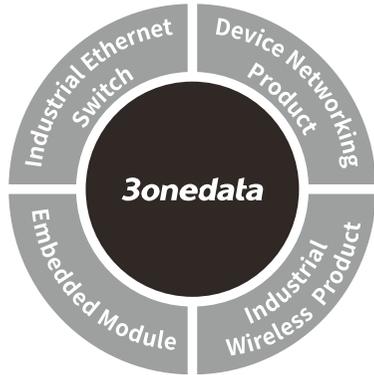


IES318 series Unmanaged Industrial Ethernet Switch Quick Installation Guide



3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology
Industrial Park, Xili, Nanshan District, Shenzhen

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1. Industrial Ethernet switch × 1 (with wiring terminal block)
2. Manual
3. DIN-Rail mounting attachment
4. Certification
5. Warranty card

If any of these items are damaged or lost, please contact our company or dealers, we will solve it asap.

【Product Overview】

The series products are unmanaged industrial Ethernet switches, including the following models:

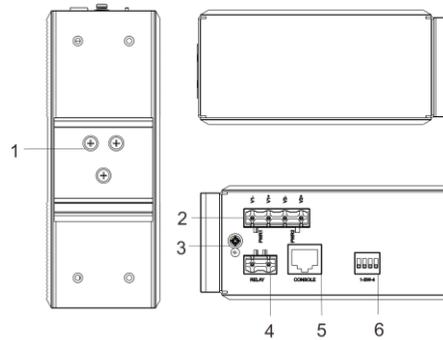
Model I IES318 (8 ports)

Model II IES318-1F (7 ports + 1 fiber port)

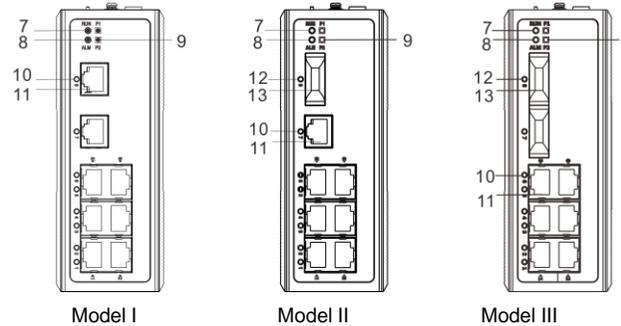
Model III IES318-2F (6 ports + 2 fiber ports)

【Panel design】

➤ Rear view, Bottom view and Top view



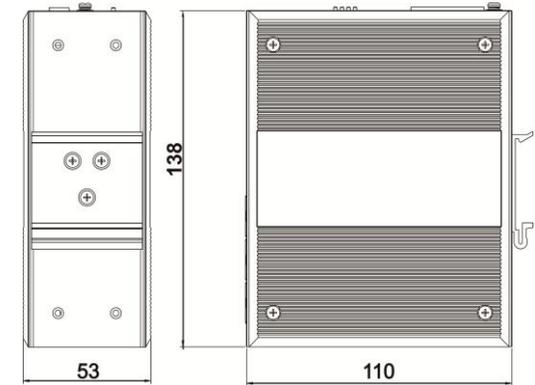
➤ Front view



1. DIN-Rail mounting kit
2. 4-pin terminal block for power input
3. Grounding screw
4. Relay interface
5. Console port
6. DIP switch
7. Running status indicator
8. Alarm indicator
9. Power supply indicator
10. 100Base-TX connection status indicator
11. 100Base-TX
12. 100Base-FX connection status indicator
13. 100Base-FX

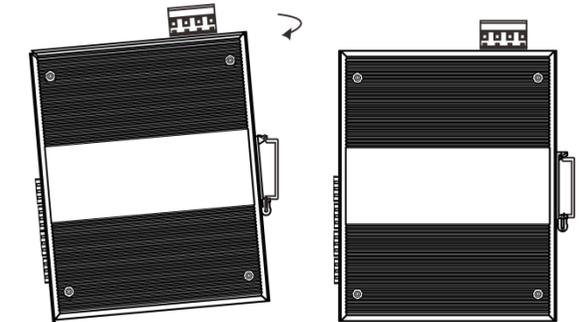
【Mounting Dimension】

Unit (mm)



【DIN-Rail Mounting】

For convenient usage in industrial environments, the product adopts 35mm DIN-Rail mounting, mounting steps as below:



- Step 1 Check if the DIN-Rail mounting kit is installed firmly.
- Step 2 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the top into DIN-Rail.

Tips:

Insert a little to the bottom, lift upward and then insert to the top.

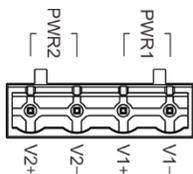
- Step 3 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

【Disassembling DIN-Rail】

- Step 1 Device power off.
- Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, then shift out the bottom of DIN-Rail, disassembling ends.

**Note:**

1. Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
2. Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
3. The device surface temperature is high after running; please don't directly contact to avoid scalding.

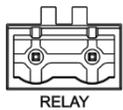
【Power Supply Connection】**➤ DC power supply**

The series devices provide 4 bits power supply input terminal blocks and two independent DC power supply systems for PWR1 and PWR2. The power supply has nonpolarity and anti-reverse functions, it can normally operate after reverse connection.

Power supply range: 12~48VDC

**Note:**

1. Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug contact and power on.
2. Power OFF operation: first unpin the power plug, then remove the terminal block wiring part, please note the operation order above.

【Relay Connection】

Relay terminals are a pair of normally open contacts in device alarm relay. They are open circuit in normal non alarm state, closed when any alarm information occurs. E.g. it's closed when power off, and send out alarm. This series switches support 1 channel relay alarm information output, support network abnormal alarm output, it can be connected to

alerting lamp, alarm buzzer, or other switching value collecting devices for timely warning operating staffs when alarm information occurs.

【DIP Switch Setting】

Provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal. Changing the status of DIP switch doesn't need power off and power on again.

DIP switch define as follow:

1. Flow control
2. Force 10M (RJ45)
3. Port alarm
4. Reserved

【Checking LED Indicator】

LED indicator monitors the operating status to comprehensively simplify the fault solution. The function of each LED is described in the table as below:

LED	State	Description
PWR1	ON	PWR1 is connected and running normally
	OFF	PWR1 is disconnected and running abnormally
PWR2	ON	PWR2 is connected and running normally
	OFF	PWR2 is disconnected and running abnormally
ALM	ON	Port link alarm
	OFF	Port link without alarm
RUN	ON/OFF	Device abnormal
	Blinking	Device is running well
Link/ACT	ON	Port connection is active
	Blinking	Data transmitted
	OFF	Port connection is not active

【Specification】

Panel	
100Base-FX	100Base-FX, interface SC/ST/FC optional

100Base-TX	10/100Base-T(X) self-adapting RJ45 port, half/full duplex self-adapting or compulsive working mode, support MDI/MDI-X self-adapting
Console port	Reserved
Alarm interface	2-core 7.62mm pitch terminal block, support 1 relay alarm output
Indicator	Power indicator, run indicator, interface indicator, alarm indicator
Exchange attributes	
Backplane bandwidth	1.6G
Packet buffer size	1Mbit
MAC table size	2K
Power supply	
Input power supply	DC power supply series products 12 ~ 48VDC support redundant double power supply, nonpolarity
Access terminal	4-core 7.62mm pitch terminal blocks
Consumption	
IES318	No-load consumption: 1.3W@48VDC Full-load consumption: 3.6W@48VDC
IES318-1F	No-load consumption: 3.2W@48VDC Full-load consumption: 4.5W@48VDC
IES318-2F	No-load consumption: 4.5W@48VDC Full-load consumption: 8.5W@48VDC
Working environment	
Temperature	Working temperature: -40℃~75℃
	Storage temperature: -40℃~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)