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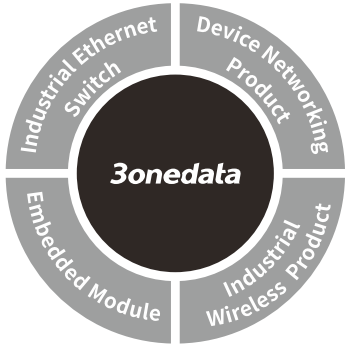
Make network communication more reliable

IES2000-2BP-SS-LC-2P48
Industrial Bypass Protector
Quick Installation Guide



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【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

1. Switch (with terminal block)
2. DIN-Rail mounting attachment
3. Warranty card
4 Certification

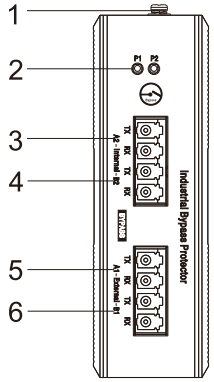
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

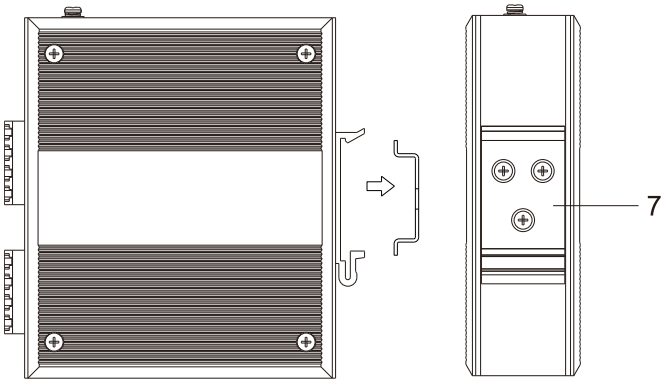
This product is industrial bypass protector. Model: IES2000-2BP-SS-LC-2P48 (4 1*1 LC-LC flange interfaces)

【Panel Design】

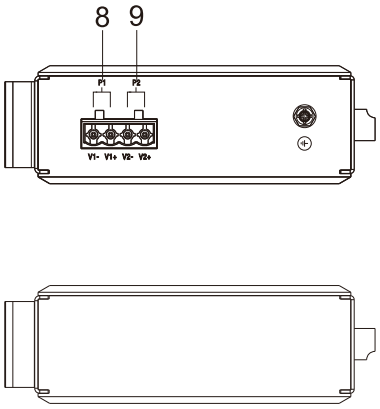
➢ **Front View**



➢ **Side view and rear view**



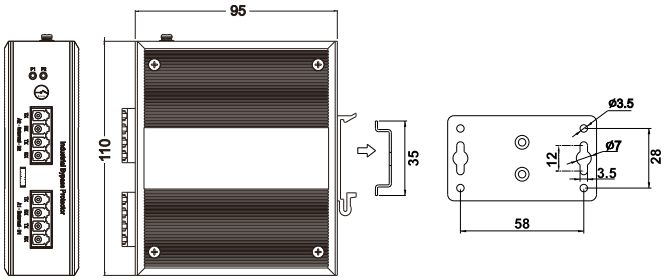
➢ **Top view and bottom view**



1. Grounding screw
2. Power supply indicator (P1-2)
3. Internal flange interface A2
4. Internal flange interface B2
5. External flange interface A1
6. External flange interface B1
7. DIN-Rail mounting kit
8. Terminal blocks for DC power input P1
9. Terminal blocks for DC power input P2

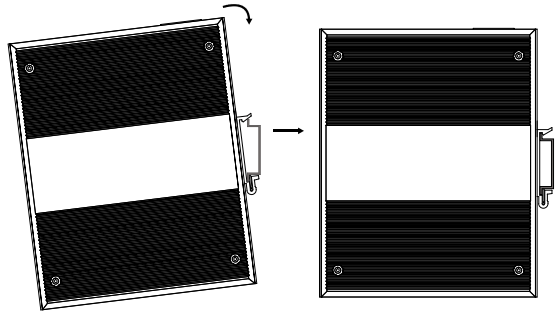
【Mounting Dimension】

Unit: mm



【DIN-Rail Mounting】

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:



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 Power off device.

Step 2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

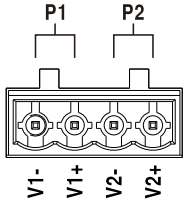
Notes:

- 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.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.

Step 3 The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Power Supply Connection】

➢ **DC power supply**



This device supports DC dual power input, P1 and P2 and provides 4-pin 5.08mm pitch terminal blocks. The power supply support anti-reverse connection. Power Supply P1 corresponds to power terminals V1 + and V1 -, and Power Supply P2 corresponds to power terminals V2 + and V2 -.

The input range of both power supplies is 12 ~ 48VDC.

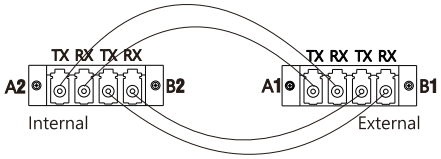
【Connecting Flange Interface】

The device provides bypass function. A2/B2 represents the internal terminal of flange interface, Internal. A1/B1 represents the external terminal of flange interface, External.

➢ **When it's powered on normally**

The Internal port and External port are conducted.

- The TX and RX of A2 end are conducted with the RX and TX of A1 end;
- The TX and RX of B2 end are conducted with the RX and TX of B1 end.



➢ **When it's powered off**

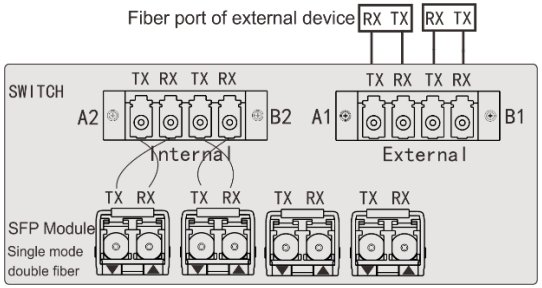
External ports A1 and B1 are conducted, which does not affect the normal communication between other devices in the network.

- The TX and RX of A1 end are conducted with the RX and TX of B1 end;
- The TX and RX of A2 end are not conducted with the RX and TX of B2 end;

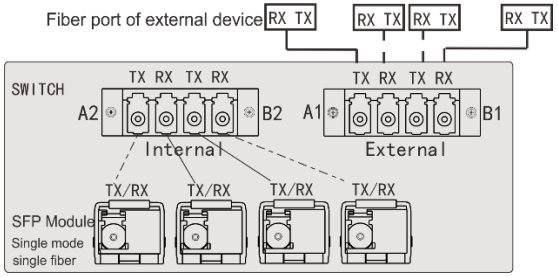
【Fiber Port Bypass】

According to the specifications of SFP optical module, fiber port Bypass is used as follows:

- When the SFP optical module is single-mode and dual-fiber, it supports one set of Bypass functions, and the wiring mode is shown in the following figure:



- When the SFP optical module is single-mode and single-fiber, it supports two sets of Bypass function selection, and the solid line and dashed line respectively represent one set of Bypass connection mode, as shown in the following figure:



【Checking LED Indicator】

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

LED	Indicate	Description
P1/P2	ON	PWR is connected and running normally
	OFF	PWR is disconnected or running abnormally

【Specification】

Panel	
Flange interface	4 1*1 LC-LC, single-mode fiber, support Bypass function
Indicator	Power indicator
Power Supply	
Input power supply	Power supply: 12~48VDC, support anti-reverse connection
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%～95% (no condensation)
Protection grade	IP40 (metal shell)