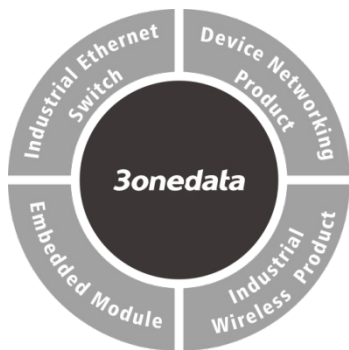


IES2000-1BP-SS-LC-2P48 Industrial Bypass Protector Quick Installation Guide



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【Package Checklist】

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

1. Industrial Ethernet switch
2. DIN-Rail mounting attachment
3. Certification
4. Warranty card

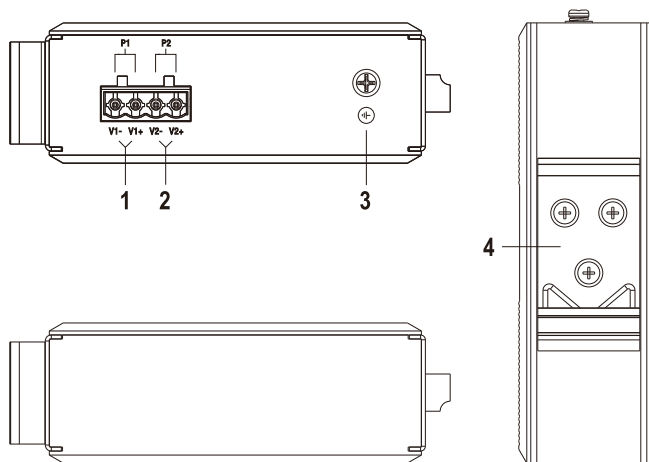
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

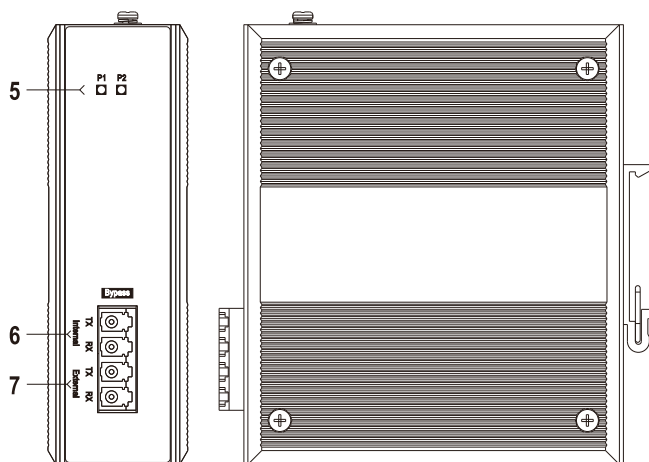
This product is DIN-Rail one-way industrial optical fiber Bypass protector. The model is: IES2000-1BP-SS-LC-2P48 (2 external single-mode single-fiber LC interfaces + 2 internal single-mode single-fiber LC interfaces, 12~48VDC redundant power supply input).

【Panel Design】

➤ Top view, bottom view and rear view



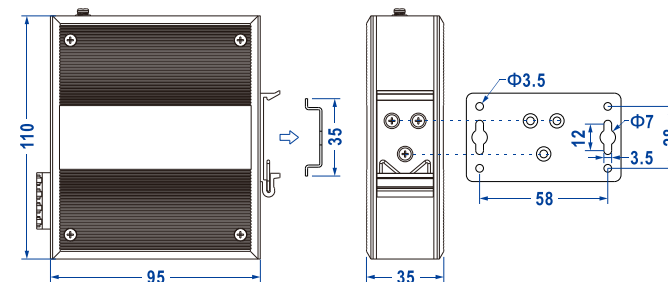
➤ Main view and right view



1. Input terminal blocks for Power Supply P1
2. Terminal block for Power supply P2 input
3. Grounding screw (M3)
4. DIN-Rail mounting kit
5. Power supply indicator (P1-P2)
6. Bypass internal interface (Internal TX/RX)
7. Bypass external interface (External TX/RX)

【Mounting Dimension】

Unit: mm



Note:

The wall-mounting panel at the right side of the above figure is not a standard attachment.

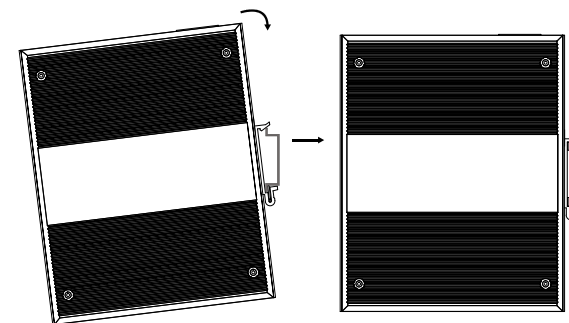


Notice Before Mounting:

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

【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 the device.

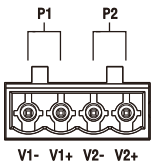
Step 2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.



Notice before power on:

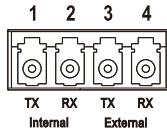
- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Power Supply Connection】



The device provides 4-pin 5.08mm pitch power supply terminal blocks. It supports two independent DC power supply systems, P1 and P2. The power input supports 1 power supply alone or 2 power supply at the same time; When two power supply input at the same time, it supports redundant backup of power supply. If one power supply fails, the device can still work normally without interruption. Power supply supports anti-reverse connection, which cannot power the device but won't damage it when it's reversely connected. The definitions of power pin are shown in the left figure, and the power input range is 12~48VDC.

【Bypass Port Connection】



This device provides 2 internal LC interface and 2 external LC interfaces, which can realize one group of single-mode single-fiber fiber port Bypass function. In normal power supply state, the external interface is conducted with the internal interface; in power off state, the external interfaces can be mutually conducted, which can avoid the communication abnormalities of other network nodes caused by network node interruption or failure of internal interfaces. The pin states of interface are shown in the following table:

PIN	1 (TX)	2 (RX)	3 (TX)	4 (RX)
Definition	Internal interface (Internal)		External interface (External)	
Power on State	1 is conducted with 4, and 2 is conducted with 3			
Power off State	3 is conducted with 4:			

【Checking LED Indicator】

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. Details of status of each indicator is as follows:

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

【Specification】

Panel	

Bypass interface	<ul style="list-style-type: none"> • External interface (External): 2 LC interfaces, adopt single mode fiber, support Bypass • Internal interface (Internal): 2 LC interfaces, adopt single mode fiber
Indicator	Power indicator
Power Supply	
Input power supply	12~48VDC, dual power supply redundancy, anti-reverse connection
Access terminal block	4-pin 5.08mm pitch terminal blocks
Working Environment	
Working temperature	-40~75°C
Storage temperature	-40~85°C
Working humidity	5%~95% (no condensation)