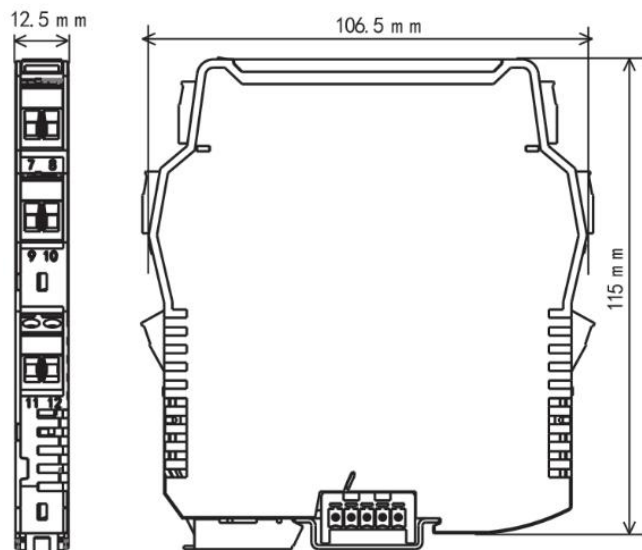


Overall Dimension

Overall dimension (L×H×W) 106.5mm×115mm×12.5mm

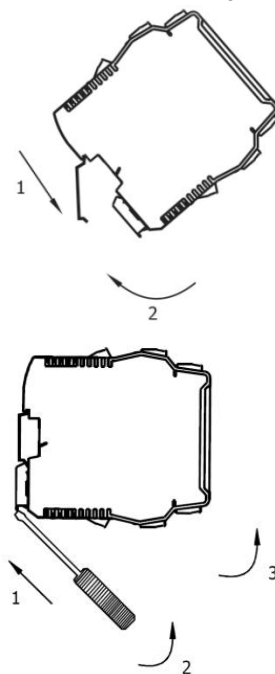


Install

This product adopts DIN35mm guide rail installation mode. The guide rail shall conform to the size specification of TH35-7.5 guide rail in the national standard GB/T19334-2003. This standard is equivalent to the international standard of IEC 60715-1981. The installation must be stable and firm. It is recommended to use the guide rail plug to prevent the instrument from sliding and unstable installation on the guide rail.

Installation steps:

- 1) Clamp the upper end of the instrument on the guide rail;
- 2) Push the bottom of the instrument into the guide rail.



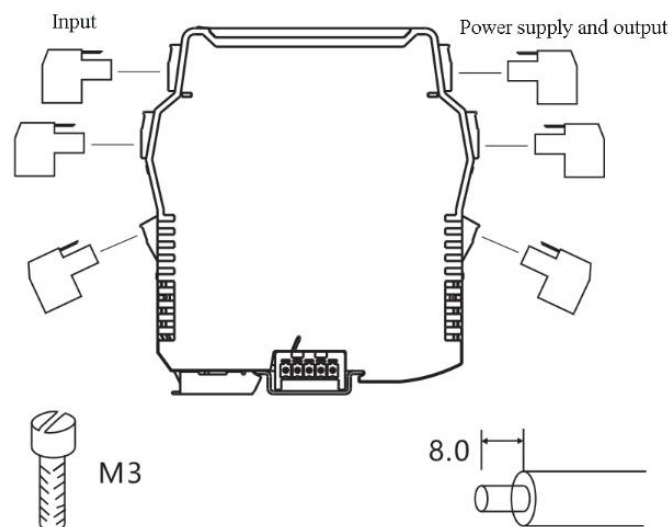
Dismantle

- (1) Use a screwdriver (knife width ≤6mm) to insert the metal latch at the lower end of the instrument;
- (2) Push the screwdriver up and pry the metal clip down;
- (3) Pull the instrument up and out of the guide

rail.

Wiring

- 1) Wiring cables are single or multi-core cables with a section of 0.5 ~ 2.5mm², The length of the core stripped of the cable protective layer is about 6~8mm.
- 2) The terminal connection is secured by M3 screws.
- 3) Please refer to the terminal wiring diagram for connection.



Maintenance

- 1) Before power-on commissioning of the product, the input and output wiring as well as the polarity of power supply and signal must be checked again.
- 2) The products have been strictly inspected and quality controlled before leaving the factory. If you find that the work is abnormal or suspect that the internal module is faulty, please contact the nearest agent or directly contact the company's technical support hotline;
- 3) Within 36 months from the date of delivery, any product quality problem during normal use shall be repaired by our company free of charge.

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TS-IP1XX (1 IN/1 OUT)
TS-IP2XX (1 IN/2 OUT)
TS-IP5XX (2 IN/2 OUT)

Signal Isolator Instructions



NOTICE

- Please check the product packaging, product label model, specifications are consistent with the order contract;
- Please read this manual carefully before installation and use. If you have any questions, please contact our technical support hotline;
- The product need to installed in a safe place;
- 24V DC power supply for instrument, 220V AC power supply is strictly prohibited;
- It is strictly prohibited to disassemble and assemble the instrument without permission to prevent instrument failure or failure.
- The Company reserves the right to change the product without prior notice to the user. In case of any discrepancy between the contents of the instructions and the website, samples and other materials, the instructions shall prevail.
- Please scan the code for more product information and configuration software.



Micro cloud



Baidu cloud disk

Profile

TS-IPX11 series current input distribution isolator, is use DC24V power supply, and provide isolated distribution power to the field transmitter, at the same time, the transmitter or current source generated 4-20mA signal after isolation, interference suppression and other processing, output current or voltage signals to the control system or PLC, DCS and other instruments.

Input terminal interface current source, two wire system, three wire system transmitter universal; Internal use of efficient magnetic and electrical isolation technology, input, output, power mutually isolated, with high precision, high linearity, extremely low temperature drift, short response time and other characteristics.

Adopts 12.5mm ultra-thin shell, DIN35mm standard guide rail independent installation mode (optional bus power supply function); Using the latest energy saving circuit, minimal temperature rise, suitable for intensive installation of guide rail. Input, output, power three isolation.

SELECTION TABLE

TS-IP	X	X	X	Instructions
Channel	1			1 IN / 1 OUT
	2			1 IN / 2 OUT
	5			2 IN / 2 OUT
Input Signal	1			4-20mA
	2			0-20mA
Output Signal	1			4-20mA
	2			0-20mA
	4			0-5V
	6			0-10V
Product Selection:				
EG: TS-IP5110				
2 IN/2 OUT, Input: 4-20mA, Output: 4-20mA				

Main Technical Parameters

Number of Channels: 1 IN/1 OUT (TS-IP1XX)
1 IN/2 OUT (TS-IP2XX),
2 IN/2 OUT (TS-IP5XX)

Input

Input signal: 4-20mA; 0-20mA
Max input current: 25mA
Distribution voltage: ≥ 21 VDC
Input impedance: $\leq 25\Omega$

Output

Output Signal: 4-20mA; 0-20mA; 0-5V, 0-10V

Max output current: 25mA

Output Load Resistance: $R_L \leq 800\Omega$ (Output is current signal)

$R_L \geq 1M\Omega$ (Output is voltage signal)

Power Supply: DC 24V, Voltage Range: DC 20~40V

Current Consumption: ≤ 39 mA (1 IN/1 OUT, 24V, distribution input, 20mA output, load resistance=550 Ω)
 ≤ 58 mA (1 IN/1 OUT, 24V, distribution input, 20mA output, load resistance=550 Ω)

Basic Accuracy: $\pm 0.1\%$ F.S

Temperature Drift: $\leq \pm 1\mu A/10^\circ C$

Response Time: ≤ 10 ms (0-90%) (TYP)

Power-on stability time: ≤ 1 S

Protection parameter:

- Power-on impact protection, power-on slow start > 20 ms
- Power back protection, back voltage < -40 V
- Distribution protection, distribution output clamp current 28mA (± 4 mA)

- Output protection, output clamp current 25mA (± 1 mA)

- Port misconnection and surge impact protection:

A. Power-input-output, between the two ports of its own circuit, it can withstand the external circuit voltage $< \pm 24$ V

B. Power-input-output, The formation of short circuit between three misconnections, open circuit, no damage. Can withstand external voltage 1500V (1min, no damage).

Dielectric Strength: 1500V AC/1 min (among input/output/power supply)

Insulation Resistance: $\geq 100M\Omega$, 500VDC (among input/output/power and shell supply)

Electromagnetic Compatibility: In accord with GB/T18268 (IEC61326-1)

Suit for Field Equipment: Two wire, three wire transmitter, current source.

Operational Environment

(1) The protection level of this device is IP20. Pay attention to environmental conditions (waterproof and small foreign bodies) when installing this device. It is suitable for installation in the control room or high-density instrument cabinet. The surrounding environment shall not have strong vibration, shock, large current and spark electromagnetic induction influence, the use of the environment shall not have serious corrosion of metal, plastic parts of harmful substances. It should not contain inflammable and explosive materials.

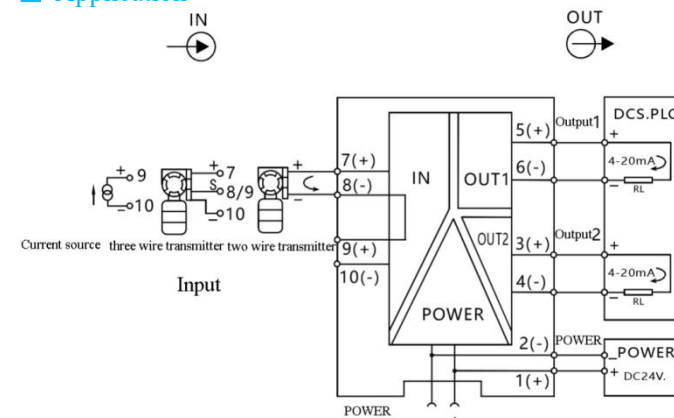
(2) This equipment is applicable to Class 2 pollution level and Class 3 voltage level environment determined by IEC/EN60664-1. If it needs to be used in areas with higher pollution levels, it is necessary to increase the response protection of the equipment.

(3) Operating Temperature Range: $-20 \sim +60^\circ C$

(4) Storage temperature: $-40^\circ C \sim +80^\circ C$

(5) Relative humidity: 10%~90%RH

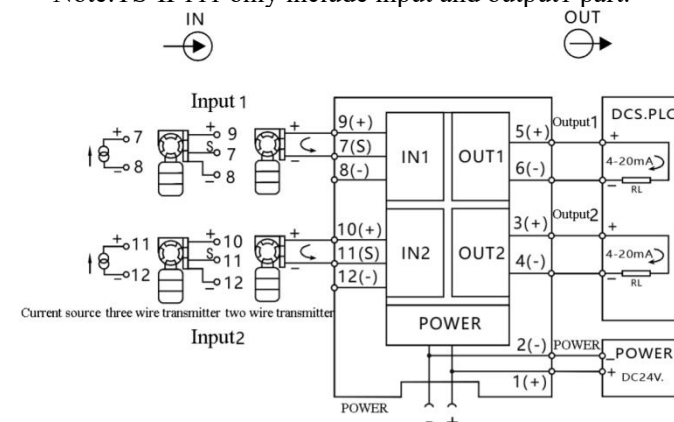
Application



TS-IP111 1 IN/1 OUT

TS-IP211 1 IN/2 OUT

Note: TS-IP111 only include input and output1 part.



TS-IP511 2 IN/2 OUT

Note: The bus power supply and RS485 output functions are optional. If necessary, specify and purchase the bus power supply module when ordering.