

# XP Series Input Loop Powered Isolator Data Sheet

## 1. General

**XP Series Input Loop Powered Isolator** (one input one output, two inputs two outputs) is an instrument used in automatic control system to isolate and transfer industrial signals. It can cooperate with various industrial sensors and field instruments to meet users' needs of monitoring remote data. It is widely used in data acquisition, signal transmission and conversion, PLC, DCS and other industrial measurement and control systems in the fields of machinery, electricity, telecommunications, petroleum, chemical industry, steel, sewage treatment, building construction, etc. It is used to perfect and supplement the function of the system I/O plug-in, improve the anti-interference ability of the automatic control system, and ensure the stability and reliability of the system.



## 2. Features

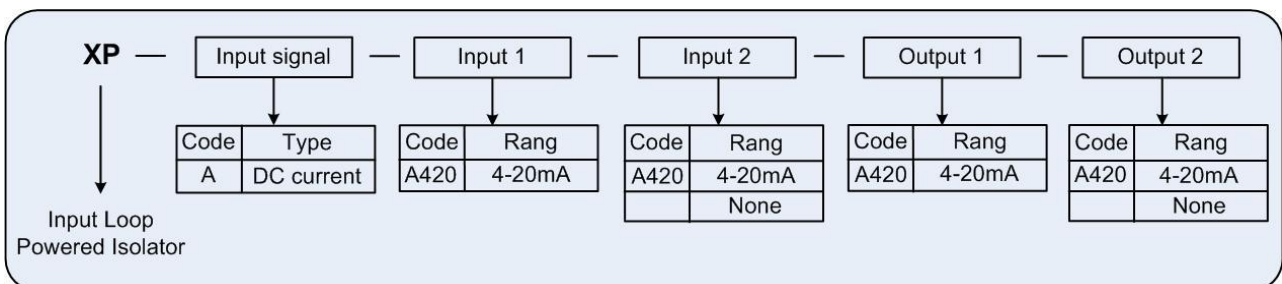
- ◆ Input and output are completely isolated, with strong anti-interference ability
- ◆ High accuracy, high linearity, long - term running stability
- ◆ Input loop powered design eliminates auxiliary power supply
- ◆ Modular design, small size, low power consumption, suitable for intensive installation
- ◆ Plug-in construction, easy installation, disassembly and maintenance

## 3. Specifications

Power supply: input loop power supply	Insulation resistance: $\geq 100M\Omega/500VDC$
Input signal: 4~20mA	Dielectric strength: input/output $\geq 2000VAC$ (1min)
Input voltage: (Load resistance * output current+3V) ~18V	Operating temperature: 0~50°C
Voltage drop: (Input voltage - output voltage) $\leq 3V$	Storage temperature: -40~85°C
Output signal: 4~20mA	Operating humidity: 10~90%RH
Load resistance: 0~500Ω	Atmospheric pressure: 86~106kPa
Accuracy: $\pm 0.1\%F.S$	Installation: DIN 35mm rail
Temp. coefficient: $\leq \pm 100PPM/^{\circ}C$	Dimension: 122mm×18mm×96mm

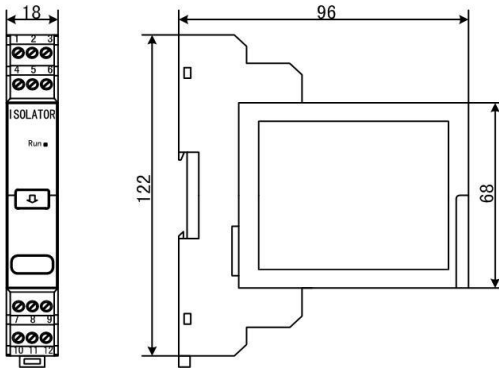
## 4. Ordering Information

XP series code table :

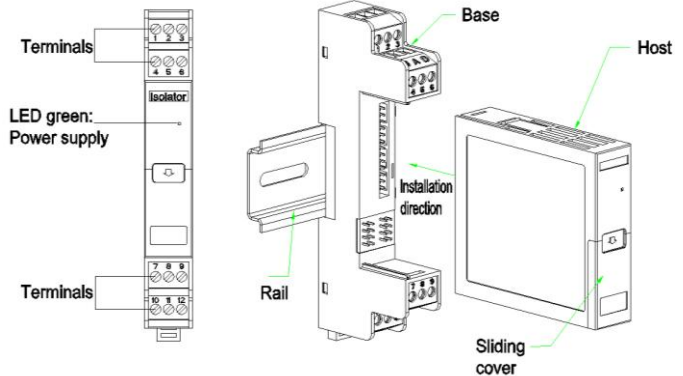


## 5. Dimension & Installation

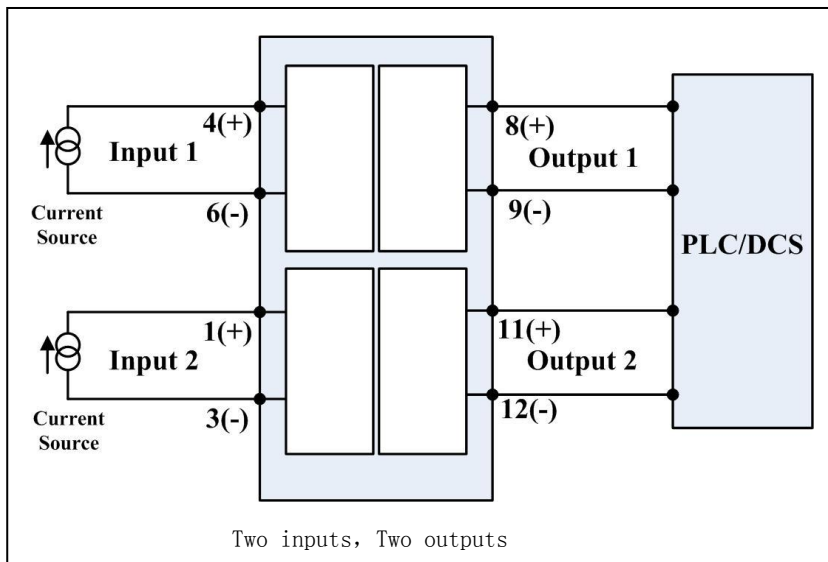
Dimension (122mm×18mm×96mm)



Installation



## 6. Typical Connection



Note: When the ordered product is one input one output, terminals 1, 3, 11 and 12 are not connected.

## 7. Examples of ordering

Refer to the code table above and provide the model number correctly.

Example 1 input: one channel 4-20mA, output: one channel 4-20mA

order model: XP-A-A420-A420

Example 2 input: two channels 4-20mA, output: two channels 4-20mA

order model: XP-A-A420-A420-A420-A420 (abbreviated as: XP-A-2A420-2A420)



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