

Dual input dual output (DIN 2X2) analog signal isolation transmitter



Characteristic

- Efficiency grade: 0.1/0.2/0.5
- International standard signal input: 0-5V/0-10V/1-5V, 0-10mA/0-20mA/4-20mA
- Output internal signal with high load capability: 5V/0-10V/1-5V,0-10mA/0-20mA/4-20mA and so on.
- Extremely high linearity in whole process (Nonlinearity<2%)

Model and Description:

DIN 2X2 ISO- U(A)□- P□- O□

| Input rated voltage (or current) | Accessorial power supply P | Output |
|----------------------------------|----------------------------|---------------------|
| U1: 0-5V | P1: DC24V | O1: 4-20mA |
| U2: 0-10V | P2: DC12V | O2: 0-20mA |
| U3: Customer choose | P3: DC5V | O3: 4-12-20mA |
| A1: 0-1mA | P4: DC15V | O4: 0-5V |
| A2: 0-10mA | P5: Customer choose | O5: 0-10V |
| A3: 0-20mA | | O6: 1-5V |
| A4: 4-20mA | | O7: Customer choose |
| A5: Customer choose | | |

Example:

| | | | | | | |
|----------------------------|---------------------|-------------------------------|----------------------|----------------------|-------------------|--------------|
| E.g.: input 1 : 0-5V | Input 2: 0-5V | Accessorial power supply: 24V | Output 1 : 4-20mA | Output 2 : 4-20mA | Model : DIN2X2 | ISO-U1-P1-O1 |
| E.g. : input 1 : 4-20mA | Input 2 : 4-20mA | Accessorial power supply: 24V | Output 1 : 4-20mA | Output 2 : 4-20mA | Model : DIN2X2 | ISO-A4-P1-O1 |

General Parameter:

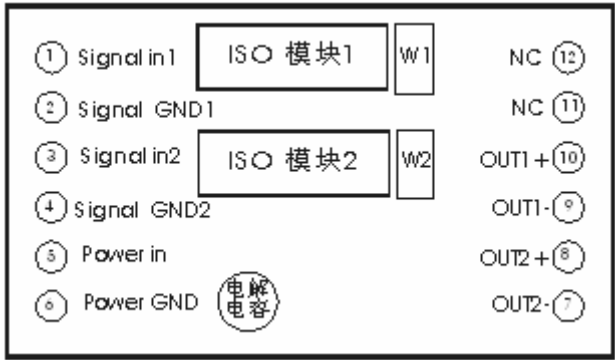
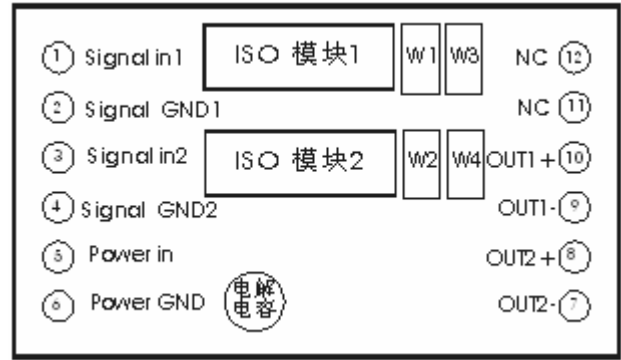
| | |
|---|---|
| Efficiency ----- 0.1% , 0.2% , 0.5% | Isolation ----- Signal input/output / Accessorial power supply |
| Accessorial power supply ----- DC5V、12V、24V, ±10% | Insulated resistance ----- ≥20MΩ |
| Operating Temperature ----- -25 ~ +70℃ | Comparison endurance ----- Signal input/output/ Accessorial power supply 3KVDC, (50Hz/1min, leak current 1mA) |
| Operating humidity ----- 10 ~ 90% (No condensing) | |
| Storage temperature ----- -45 ~ +85℃ | Endure impaction voltage ----- 3KV, 1.2/50us(peak) |
| Storage humidity ----- 10 ~ 95% (No condensing) | |

| Input Parameter | | | | Output Parameter | | |
|-----------------|-----------------------------|----------------|---|------------------|-------------------------------|----------|
| Output terms | Input impedance | Power loss | Input over-loaded | Output terms | Output over-loaded capability | Response |
| 0-5V | ≥300KΩ | Vout < 0.3W | 2.0 times: Continuous | 4-20mA | Loaded resistance ≤650Ω | ≤50mS |
| 0-10V | | | | 0-20mA | | |
| 0-1mA | TYP: 250Ω Customer chose | Iout <1W | 1.5 times: Continuous 3.0 times: 1S | | ≥1KΩ | |
| 0-10mA | | | | 0-5V | | |
| 0-20mA | | | | 0-10V | | |
| 4-20mA | | | | 1-5V | | |

DIN 2X2 inner structure

SUNYUAN signal Isolation Transmitter adopts ISO-U□-P□-O□ series or ISO-A□-P□-O□ series interface IC, the adjustable resistance installed on the PCB board can be used to adjust or revise the zero precision and output precision. Dimension of the PCB board: length * width 79.5*32.5(mm).

Accessories installed on the PCB board and function figure

| Only need products to adjust gain e.g.: DIN 2X2 ISO-U2-P1-O5 | Need products to adjust gain and zero e.g.: DIN 2X2 ISO-U2-P1-O1 |
|--|---|
|  <p>图 1</p> |  <p>图 2</p> |
| W1、W2 are resistance to adjust output precision | W1、W2 are resistance to adjust output precision; W3、W4 are used to adjust zero precision |

DIN 2X2 series physical dimension:

| Pin | Function | |
|-----|-------------|---------------------------|
| 1 | Signal in1 | Signal1 in + |
| 2 | Signal GND1 | Signal1 in + |
| 3 | Signal in2 | Signal2 in + |
| 4 | Signal GND2 | Signal2 in - |
| 5 | Power in | Accessorial power supply+ |
| 6 | Power GND | Accessorial power supply- |
| 7 | Out2- | Signal2 out - |
| 8 | Out2+ | Signal2 out + |
| 9 | Out1- | Signal1 out - |
| 10 | Out1+ | Signal1 out + |
| 11 | NC; | NC |
| 12 | NC; | NC |

