

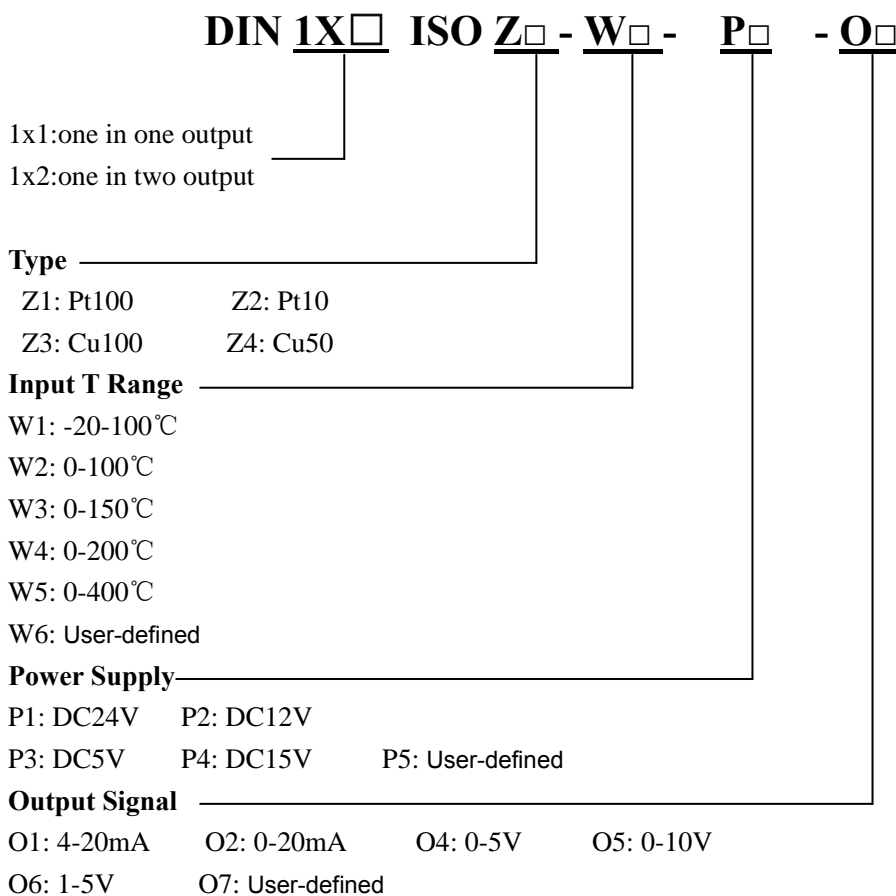
Signal Isolated Amplifier Module

DIN Rail-mounted Thermal Resistance Isolation Transmitter

Features:

- Three-wire, four-wire or two-wire PT100 thermal resistance signal input
- Accuracy, Linearization error grade: 0.2
- Linearization disposal and long line compensate circuit
- Isolation Voltage: 3000VDC input/power/output
- Power: 5V/12V/15V/24VDC or 110VAC/220VAC
- International standard signal output: 4-20mA/0-5V/0-10V etc.
- Small size, low cost
- Standard DIN Rail-mounted :DIN 1x1/DIN 1x2
- Industrial temperature range: - 45 ~ + 85 °C

Part number and description:



Examples:

1. signal Input: Pt100, temperature range: 0~100°C; signal output: 4-20mA; power: 24V
Part No.: **DIN1x1 ISO Z1-W1-P1-O1**
2. signal input: Cu50, temperature range: 0~100°C; signal output 1: 0-5V; signal output 2: 0-5V; power: 12V
Part No.: **DIN1x2 ISO Z4-W2-P2-O4**

Technic parameter:

1. Accuracy, Linearization error grade: 0.2
2. Frequency response: $\leq 10\text{ms}$
3. Power: DC5V、12V、24V, $\pm 10\%$
or AC110V、220V
4. Power loss: Single output: $< 0.75\text{W}$
Dual Output: $< 1.5\text{W}$
5. Three-wire, four-wire or two-wire PT100 thermal resistance signal input

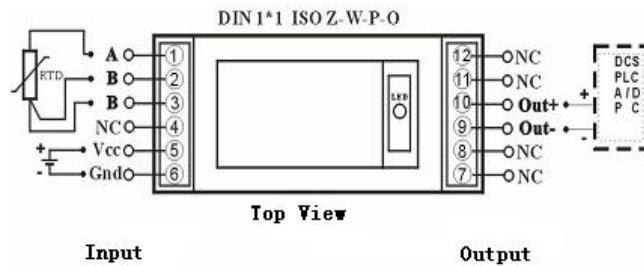
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- | | |
|--|---|
| 6. Load capability: voltage output: $\geq 2\text{ k ohm}$ | 7. Temperature drift: $50\text{ppm}/^\circ\text{C}$ |
| Current output: $\leq 650\text{ ohm}$ | |
| 8. Isolation Voltage: 3000VDC input/power/output 1/output 2 | |
| 9. Operating temperature: $-25 \sim +70^\circ\text{C}$ | 10. Insulated resistance : $\geq 20\text{M}\Omega$ |
| 11. Storage Temperature: $-45 \sim +80^\circ\text{C}$ | 12. Operation humidity: $10 \sim 90\%$ |
| 13. Storage humidity: $10 \sim 95\%$ | |
| 14. Endure voltage: signal input/output 1/output 2/power 2500VDC, 1 minute, leak current: 1mA | |
| 15. Endure impact voltage: $3\text{KV}, 1.2/50\mu\text{s}$ (peak value) | |

Dimensions and Pin Description: (Figure 1)

1. DIN 1X1

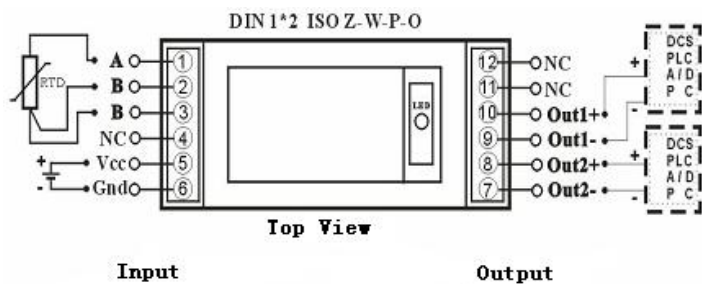
| PIN | Function | |
|-----|----------|---------|
| 1 | A | Input A |
| 2 | B | Input B |
| 3 | B | Input B |
| 4 | NC | |
| 5 | Vcc | Power+ |
| 6 | GND | Power- |
| 7 | NC | |
| 8 | NC | |
| 9 | Out - | |
| 10 | Out+ | |
| 11 | NC | |
| 12 | NC | |



Wiring diagram

2. DIN 1X2

| PIN | Function | |
|-----|----------|---------|
| 1 | A | Input A |
| 2 | B | Input B |
| 3 | B | Input B |
| 4 | NC | |
| 5 | Vcc | Power+ |
| 6 | GND | Power- |
| 7 | Out2- | |
| 8 | Out2+ | |
| 9 | Out1 - | |
| 10 | Out1+ | |
| 11 | NC | |
| 12 | NC | |



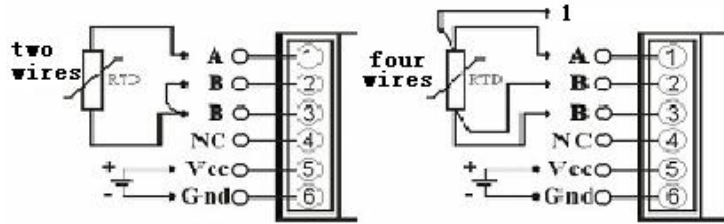
Wiring diagram

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Note: 1. when two-wire or four wires input, refer to Figure 1..

2. Break test

a. output Max: the line that connecting PIN1,3 is broken.



Note: Point "1" need not be connected or connect to PIN 4.

Figure 1

Dimension:

Front View

Bottom View

