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 ℃

Part number and description:

DIN 1X□ ISO Z□ - W□ - P□ - O□

1x1:one in one output
1x2:one in two output

Type
Z1: Pt100 Z2: Pt10
Z3: Cu100 Z4: Cu50

Input T Range
W1: -20-100℃
W2: 0-100℃
W3: 0-150℃
W4: 0-200℃
W5: 0-400℃
W6: User-defined

Power Supply
P1: DC24V P2: DC12V
P3: DC5V P4: DC15V P5: User-defined

Output Signal
O1: 4-20mA O2: 0-20mA O4: 0-5V O5: 0-10V
O6: 1-5V O7: User-defined

Examples:

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

Technic parameter:

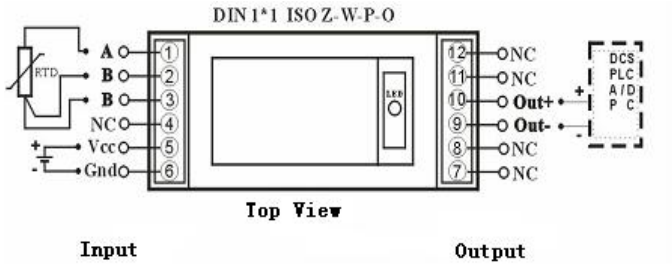
1.Accuracy, Linearization error grade:0.2
2.Frequency response: ≤10mS
3.Power: DC5V、12V、24V，±10% or AC110V、220V
4.Power loss: Single output: < 0.75W Dual Output: < 1.5W
5.Three-wire,four-wire or two-wire PT100 thermal resistance signal input

6. Load capability: voltage output: ≥ 2 k ohm
Current output: ≤ 650 ohm
7. Temperature drift: 50ppm/℃
8. Isolation Voltage: 3000VDC input/power/output 1/output 2
9. Operating temperature: -25 ~ +70℃
10.Insulated resistance : ≥20MΩ
11.Storage Temperature: -45 ~ +80℃
12.Operation humidity: 10 ~ 90%
13.Storage humidity: 10 ~ 95%
14.Endure voltage: signal input/output 1/output 2/power
2500VDC,1 muniute,leak current:1mA
15.Endure impact voltage: 3KV,1.2/50us(peak value)

Dimensions and Pin Description: (Figure 1)

1. DIN 1X1

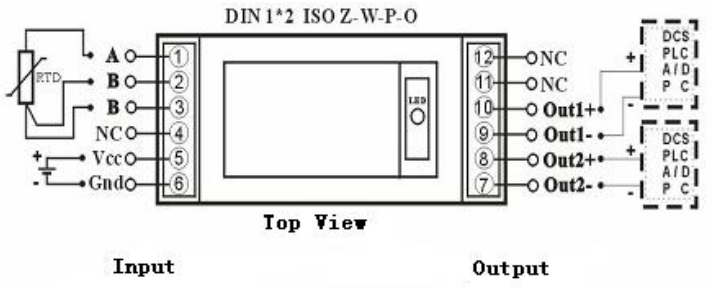
PIN	Function	
1	A	Input A
2	B	Input B
3	B	Input B
4	NC	
5	Vcc	Power+
6	GND	Power-
7	NC	
8	NC	
9	Out -	
10	Out+	
11	NC	
12	NC	



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	

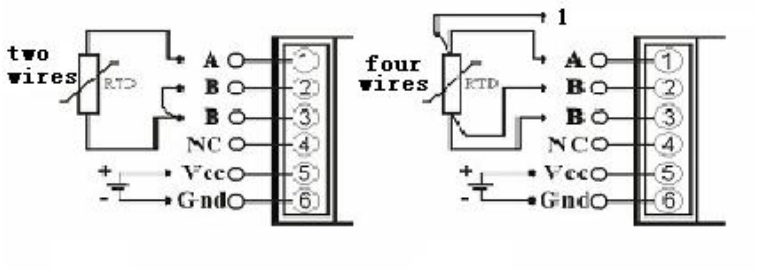


Wiring diagram

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.

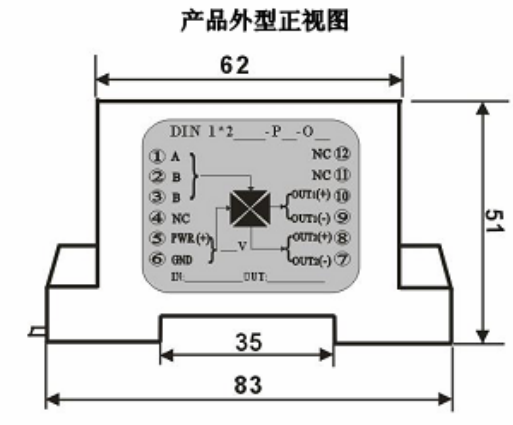


Note: Point “1” need not be connected or connect to PIN 4.

Figure 1

Dimension:

Front View



Bottom View