

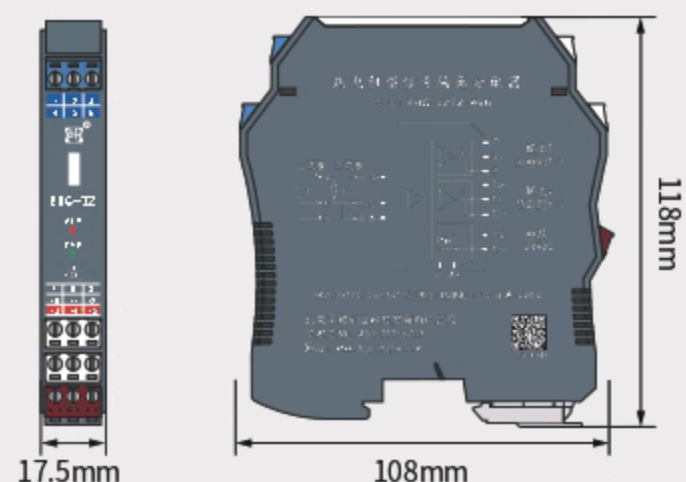
RTD input temperature converter

PHG-12TZ-466

1 input 2 outputs

Input: Two-wire or three-wire RTD Pt100 signal

Output: RTD 1:1 signal



Overview

Thermal resistor input temperature converter can transmit and output the thermal resistor (RTD) Pt100 signal at 1:1 for driving the load. Intelligent configuration is possible, and the actual range of the thermal resistance can be set through computer software. It has the function of disconnection alarm and out-of-range alarm function.

This product needs to be powered independently, and the power supply, input and output terminals are isolated.

Specifications

Input:

Input signal: Two wire or three wire Pt100 signal

Signal range: Corresponding measurement range of thermal resistance

Measurement range: $-150^{\circ}\text{C} \sim 850^{\circ}\text{C}$

Output:

Output signal: RTD Pt100 signal

Load capacity: $0 \sim 500 \Omega$ (customizable)

Basic parameters:

Supply voltage: $20 \sim 35\text{V DC}$

Power consumption: $< 1.1\text{W}$ (when 24VDC power supply)

LED indicator: Green—Power indicator

Short circuit alarm: ALM red light stays on for a long time

Open circuit alarm: ALM red light flashing

Output accuracy: $0.1\% \text{F.S}$

Temperature drift: $0.1\% \text{F.S}/10^{\circ}\text{C}$

Temperature parameters: Working temperature: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage temperature: $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Relative humidity: $10\% \sim 95\% \text{RH}$ no condensation

Insulation strength: $\geq 2000\text{VAC/min}$ (between input/output/power supply)

Insulation resistance: $\geq 100\text{M}\Omega$ (500V DC)

(between input/output/power supply)

EMC: GB/T 18268(IEC 61326-3-1)

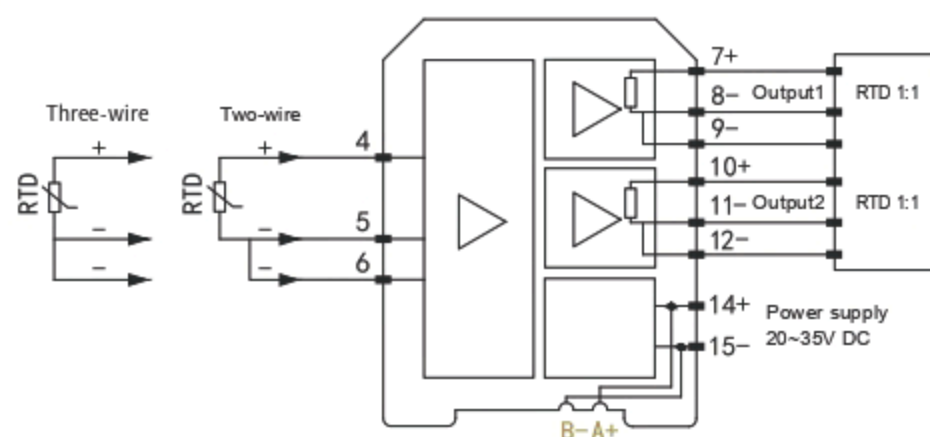
MTBF: 80000h

Wire requirements: Horizontal cutting surface $\geq 0.5\text{mm}^2$

Insulation strength $\geq 500\text{V}$

Applicable field equipments: Two wire or three wire thermistors Pt100

Connection wiring



- Note: 1. The power rail function is an optional function, and users need to specify the power supply method when placing an order
The selection of power rail connectors can refer to page 89 of the "Annex"
2. When inputting a three wire RTD, it is necessary to ensure that the three wires are of equal length as much as possible
3. When inputting a two-wire RTD, safety barrier terminals 6 and 5 must be short circuited

