



Mianyang Weibo Electronic Co.,Ltd

Designing, Manufacturing and Supplying WB Series Electric Isolated

Transducer and Digital Electrical Transducer since 1989

USER MANUAL

WBT1C4CU05 Standard Signal Regulator

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ISO9001 ISO14000 ISO18000

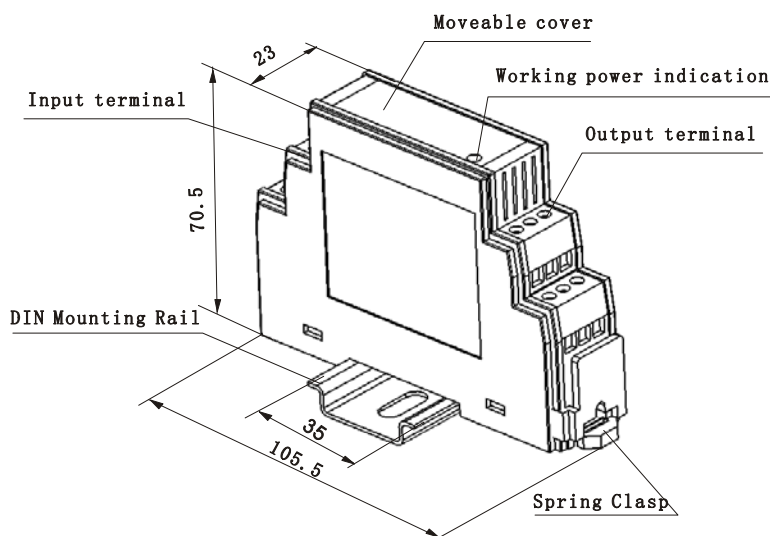
Certified

WBT1C4CU05 Standard Signal Regulator

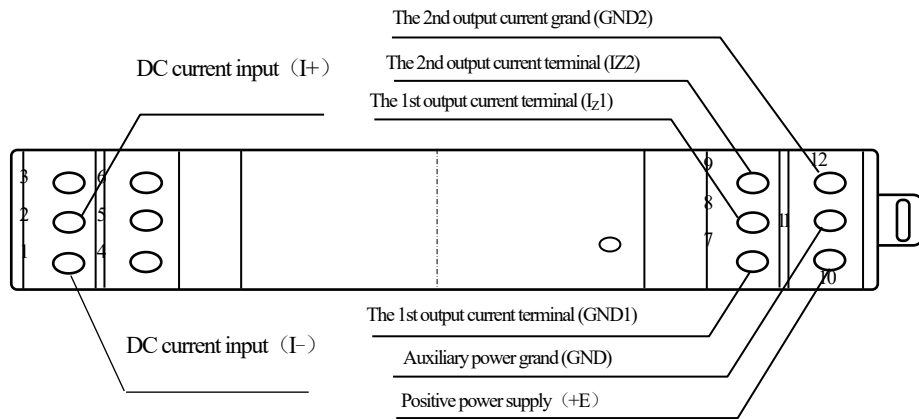
Product Description and Application

This product uses linear photoelectric isolation technology to isolate and transmit 4mA to 20mA DC current signals. The input, two output and auxiliary power supply of this product are electrically isolated from each other, featuring high accuracy, high isolation, low drift and low power consumption. It solves the common mode interference in the signal transmission process of sensors or instruments, overcomes the problems of ground loop interference and strong electric interference caused by the scattered transmission signal, and is especially suitable for sensors/transmitters and meters that need to be electrically isolated.

Product Dimensional Drawing (unit: mm)



Product Terminal Identification Drawing



Terminals not defined in the figure can't be used.

Key Technical Data:

1. Input specifications: DC 4mA~20mA;
2. Output specifications: Dual channel DC 4mA~20mA;
3. Accuracy level: 0.5;
4. Equivalent input impedance: about 300Ω;
5. Linear range: 0% to 120% of nominal input;
6. Response time: 150ms;
7. Overload capability: 2 times the nominal input current for 5s;
8. Maximum load capacity: about 500Ω;
9. Auxiliary power supply: 24V DC;
10. Static current: 60mA;
11. Isolation withstand voltage: between input and output >DC 1.5kV, 1min,
>DC 1.5kV, 1min between power supply and output
Between the power supply and the input >DC 1.5kV, 1min,
>DC 1.5kV between the two outputs, 1min;
12. Output ripple: <10mV (effective value, output load is 250Ω);
13. Temperature drift: $250 \times 10^{-6} / ^\circ \text{C}$;
14. Ambient temperature: Commercial grade: $0^\circ \text{C} \sim 50^\circ \text{C}$,
Industrial grade: $-25^\circ \text{C} \sim +70^\circ \text{C}$.