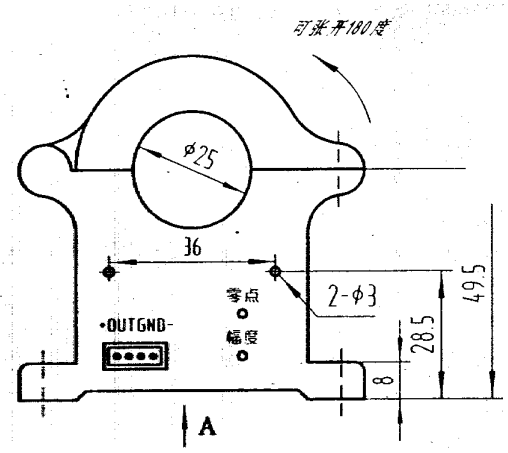
Mianyang Weibo Electronic Co.,Ltd

WBI053J21 Open Loop Hall Effect Current Sensor

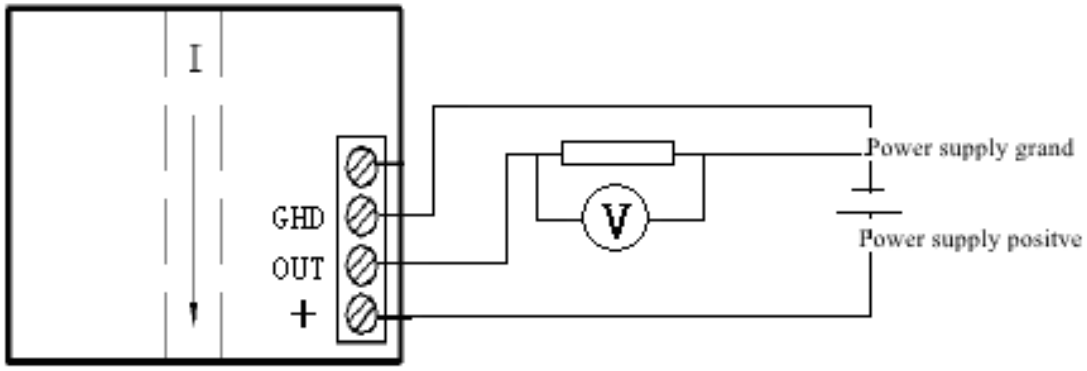
Product Description and Application

This product adopts the principle of electromagnetic induction and Hall double compensation to realize the open circuit of the product magnetic circuit, which is convenient for non-contact real-time measurement of the DC current in the power grid or circuit, and converts it into a standard DC current (Iz) output. Good temperature stability, strong overload capacity, high isolation, convenient online installation and disassembly, etc. It is suitable for uninterrupted detection in industrial field. This product adopts screw mounting structure, which is especially suitable for current measurement in variable frequency speed regulation equipment and other electromechanical equipment.

Product Dimensional Drawing (unit: mm)



Terminal Identification:



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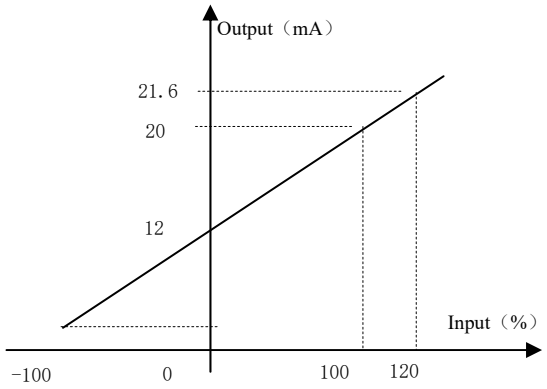
Key Technical Data:

1. Input: ±DC 50A, 100A (Min. input customizable could be 30A);
   Output: DC 12mA±8mA;
   Power supply: DC 12V, 15V, 24V;
2. Accuracy level: 1.0;
3. Linear range: 0%～110% of nominal input;
4. Frequency response: DC;
5. Response time: 3μs;
6. Overload capacity: 2 times the nominal input value, lasting 5s;
7. Load capacity: 6V;
8. Quiescent current: 40mA;
9. Auxiliary power supply: see product label;
10. Isolation withstand voltage: >DC 6kV, 1min;
11. Output ripple: ≤25mV;
12. Ambient temperature: -25℃～+70℃;
13. Temperature drift: 300×10-6/℃.

Input and Output characteristic curve



12mA±8mA output characteristic curve

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