
Operating Instruction

TECHNICAL PARAMETERS

- Input Voltage: DC 8V-24V, above 40mA
- Display Mode: four-digit 0.56 LED
- Measuring Range: 10-9999
- Measuring accuracy: $\pm 0.1\%$, reading ± 1 word
- Display refresh rate: >3 times/sec
- Over-range Display: Below the detection range, "LLLL" is displayed;
Above the detection range, "HHHH" is displayed

OPERATING INSTRUCTION

- Please connect the wiring as the label on the product :
 1. The long black wire is connected to the negative pole of the power supply;
 2. The long red wire is connected to the positive pole of the power supply;
 3. The short black wire, short brown wire, and short blue wire are respectively connected to the corresponding wires of the same color of the Hall switch
- The Hall switch needs to be fixed firmly with a bracket. The installation distance between the Hall switch and the magnet must be within 10mm (the effective distance is subject to the detected magnet)
- The magnet has N/S sides, only one side is valid.

PRODUCT SPECIFICATIONS

- Size: 79mm*43mm*26mm
- Net weight: 79.5g

PRECAUTIONS FOR USE

- Should avoid strong electromagnetic interference, it is better to use shielded wire or twisted-pair wire for measuring wire. Avoid the same tube or twisted wiring with other such as strong current wires or power wires to avoid unnecessary interference.
- The matching Hall switch is an NPN normally open type with a diameter of 12mm. Customers can purchase other NPN normally open sensors instead
- The Hall switch and magnet need to be fixed firmly during detection, otherwise the shaking of the Hall switch or magnet will cause the detection data to jump or be inaccurate. The installation distance between the Hall switch and the magnet must be within 10mm.
- Magnets cannot be installed on metallic iron materials, as metallic materials will interfere with Hall's detection. The magnet has N/S sides, only one side can be detected. When the Hall detects the magnet, the Hall lamp will flash.

● Common problems and solutions for product use

Problem	Cause	Solution
Displays "LLLL"	The meter is not connected to the Hall switch.	Install the Hall switch and magnet in the correct way.
	The meter is connected to the Hall switch, but the magnet is not detected.(maybe the magnet is not installed, or the distance between the Hall and the magnet is too far; Or the magnet and the Hall switch are not aligned, etc.)	
	The actual speed is too low.	Detect within the product range
	There is a problem with the Hall switch.	Replace a NPN normally open sensor
	Use environment interferes with Hall switch detection. (such as inverter)	Use the anti-jamming Hall sensor with shielded wire, and connect the shielded wire with the negative wire of Hall signal.
Displays "HHHH"	The environment interferes with the Hall switch detection. (for example, Frequency converter)	Detect within the product range
	The actual speed is too high.	
Displays to jump or be inaccurate	The environment interferes with the Hall switch detection. (for example, Frequency converter)	Use the anti-jamming Hall sensor with shielded wire, and connect the shielded wire with the negative wire of Hall signal.
	The Hall switch or magnet is not firmly fixed.	The Hall switch and magnet need to be fixed firmly during detection.