Mianyang Weibo Electronic Co.,Ltd

Designing, Manufacturing and Supplying WB Series Electric Isolated Transducer and Digital Electrical Transducer since 1989

USER MANUAL

The Split Hole Hall Current Transducer

WBI222LX05-25

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Tel: 86 0816 2971265

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ISO9001 ISO14000 ISO18000

Certified

WBI222LX05-25 Hall Current Sensor

Safety claim

The information in the safety claim of the equipment documentation is intended to ensure that equipment is properly installed in order to maintain it in a condition.

It is assumed that everyone who will be associated with the equipment will be familiar with the contents of that safety section, or this safety guide.

When electrical equipment is in operation, dangerous voltages will be present in certain parts of the equipment (e.g. the input terminal). Failure to obverse warning notices, incorrect use, or improper use may endanger personnel and equipment and course personal injury or physical damage.

Before working in the terminal strip area, the equipment must be isolated.

Proper and safe operation of the equipment depends on appropriate shipping and handling, proper storage, installation and commissioning, and on careful operation, maintenance and servicing.

The operating manual for the equipment gives instructions for its installation, commissioning, and operation. However, the manual cannot cover all conceivable circumstances or include detailed information on all topics. In the event of questions or specific problem, do not take any action without proper authorization. Contact the appropriate WB technical or sales office and request the necessary information.

Standard application

1. Accuracy

Accurate degree is conformed to IEC688:1992

2. Safety

2.1 Overload capability

Overload capability is conformed to IEC688:1992

2.2 Isolation voltage

Can be endured testing voltage is conformed to Q/72085584-0.1-2004

2.3 Insulation impedance

The insulation impedance is no less than 20M Ohm, is conformed to Q/72085584-0.1-2004

3. Electromagnetic Capability

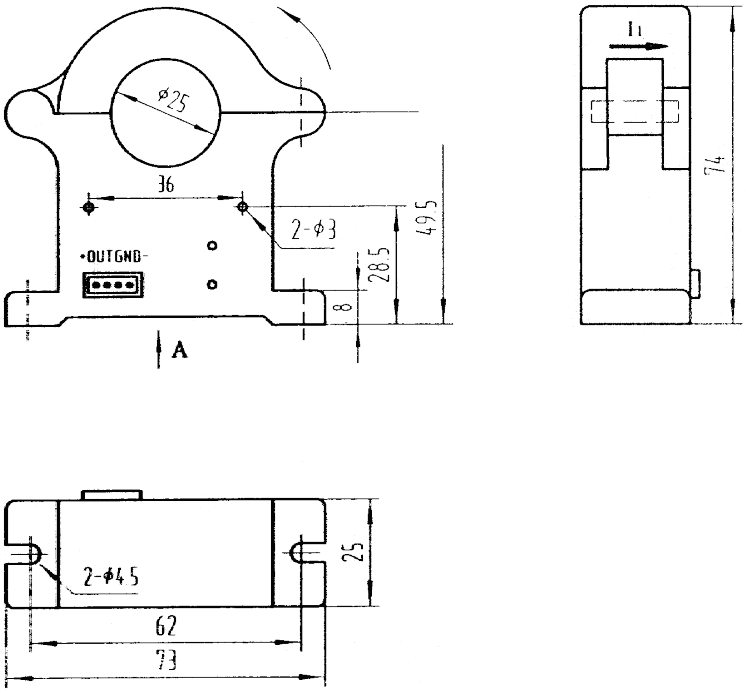
3.1 Electromagnetic field immunity test according to IEC 61000-4-3:1995

3.2 Power frequency magnetic field immunity test according to IEC 61000-4-8:1993

Product Description and Application

The WBI222LX05-25 is is a split core hall effect sensor for the measurement of AC/DC current with standard voltage output 0~5(10)V.The product has certain advantages of total galvanic isolation between input/output, high accuracy, low drifting by temperature, and wide temperature bearable range, etc.

Product Dimensional Drawing (unit: mm)



+	+E
OUT	Output
GND	Power and output GND
-	Leave it blank

Key Technical Data:

Input	AC/DC 0-50A....0-400A
Output	DC 0-5V 0~10V
Accuracy	1%
Linear Range	0%～100% nominal input

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Frequency Response	DC ～ 100kHz
Response Time	≤50ms
Overload Capability	20 times of nominal input for 5 seconds
Auxiliary Power Supply	+12VDC +24VDC
Offset Voltage	≤±25mV（when input current is zero and the temperature is +25℃）
Isolation Voltage	6KV，50Hz/60Hz，1min
Relative Humidity	≤90%
Temperature Drift	≤±400 ppm℃
Ambient Temperature	-25℃～+70℃

Instruction:

1. Connect the terminals of power source and outputs respectively and correctly, never make wrong connection.
2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. The best accuracy can be achieved when the window is fully filled with bus-bar(current carrying conductor).
4. The in-phase output can be obtained when the direction of current of current carrying conductor is the same as the direction of arrow marked on the sensor case.

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