



# Mianyang Weibo Electronic Co.,Ltd

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

## USER MANUAL

### WBI022KB1 Hall Effect Current Transducer

[www.wb-my.com](http://www.wb-my.com)

[wbwm@wbz.cn](mailto:wbwm@wbz.cn)

Tel: 86-816-2971265

Fax: 86 816 2281934

ISO9001 ISO14000 ISO18000

Certified

Quality Warranty

Any quality problem found in WB series products, we offer  
Three years free charge of repair the products, and six months guaranteed free charge of change and  
return the products.



Mianyang Weibo Electronics Co.,Ltd  
No.98 Youxian East Road, Youxian District, Mianyang City, Sichuan Province P.R.China  
Tel: 86-816-2971265 Fax: 86-816-2281934  
[www.wb-my.com](http://www.wb-my.com)  
[www.weiboelctronic.cn](http://www.weiboelctronic.cn)

## WBI022KB1 Current Transducer

### 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 would be associated with the equipment should 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 observe warning notices, incorrect use, or improper use may endanger personnel and equipment and cause 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 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

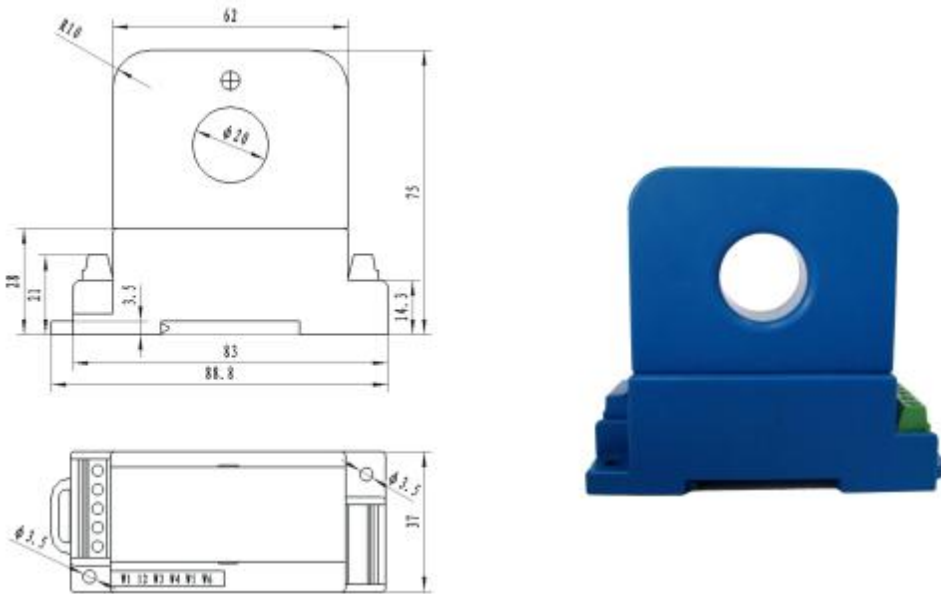


## Product Description and Application

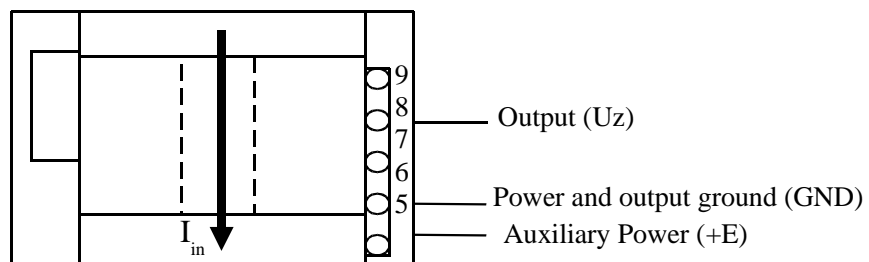
WBI022KB1 converts DC input current into a load independent output signal DC 0~5(10)V. It has adopted hall effect principle for real time measurement of DC current from electric net or electric circuit.

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)



## Product Terminal Identification Drawing



**Non-identified terminals cannot be used**



## Key Technical Data:

Input	DC/AC 0~20A...0~300A
Output	DC 0~5(10)V
Accuracy	1.0 %
Linear Range	0%~120% nominal input
Response Time	≤100ms
Overload Capability	20 times of nominal input for 5 seconds
Auxiliary Power Supply	+24VDC , +15VDC, +12VDC
Offset Voltage	≤±25mV (when input current is zero and the temperature is +25°C)
Isolation Voltage	6KV, 1min
Relative Humidity	≤90%
Temperature Drift	≤ ±400 ppm°C
Ambient Temperature	-20°C~+70°C
Mounting	DIN rail mounting or screw mounting

## Instruction:

1. Connect the terminals of power source and outputs respectively and correctly, never make wrong connection.
2. The 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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