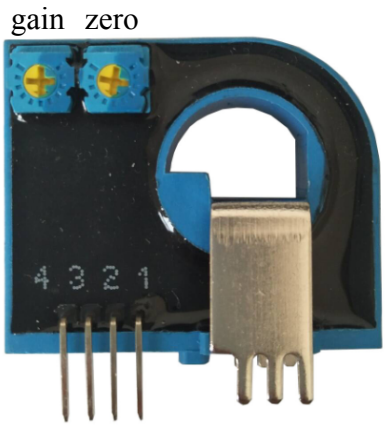
HKB16

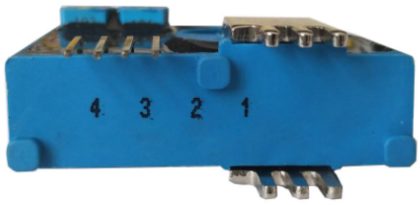
Hall open loop current sensor

PCB mounting, Detect DC,AC and pulse current, High insulation between primary side and the vice side circuit.

Front view



Epoxy view

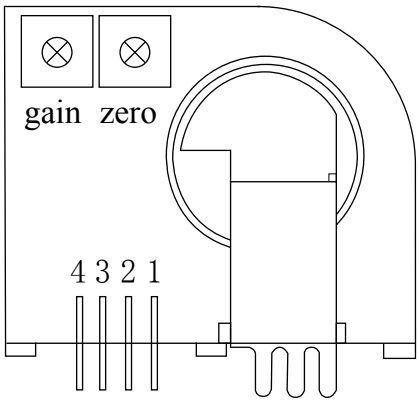


Bottom view

Product features

- Light weight
- Low power consumption
- Good linearity
- No insertion loss
- Fast response time
- Good anti-interference ability

Installation diagram



String the sensor bus into the circuit under test

Product application

- Railway
- Metallurgical
- Welding machine
- Robot
- Motor
- Inverter power supply
- Variable frequency governor
- Uninterrupted power supply and communication power supply

Electrical parameters: (The following parameters are typical values and actual values will be subject to product testing)

							Remarks:
Ip	Rated input	±50A	±100A	±200A	±300A	±400A	Standard input
Ipm	Input measurement range	±75A	±150A	±300A	±450A	±600A	Default is 1.5 times of rated input
Vout	Rated output	±4V					Standard output
X	Accuracy	1%					I=IP
εL	Linearity	1%					I=0~±IP
Vc	Supply voltage	±12V/±15V					One or the other Supply voltage range±5%
Ic	Current consumption	±15mA					Reference will be subject to the measured
Rl	Load impedance	≥10KΩ					Collection port impedance while lower voltage affect accuracy
Voe	Zero offset voltage	≤±15mV					TA=25℃
Tr	Response time	≤3μs					Reference will be subject to the measured
N.w	Weight	29g					Reference will be subject to the measured
Ta	Operation temperature	-10～+70℃					
Ts	Storage temperature	-25～+70℃					
Bw	Band width	DC~50KHz					Factory test according to DC
Vd	Delectric strength	2.5KV 50Hz 1min					

Instructions for use:

1. According to the connection mode of correct connection
2. The direction shown by the arrow is positive
3. With hole measurement, response time and following the speed for the best
4. Faulty wiring can lead to product damage and output uncertainty

Safe operation:

*Please read this specification carefully before use.

*When you need to move the product, please be sure to disconnect the power and all the connected cables.

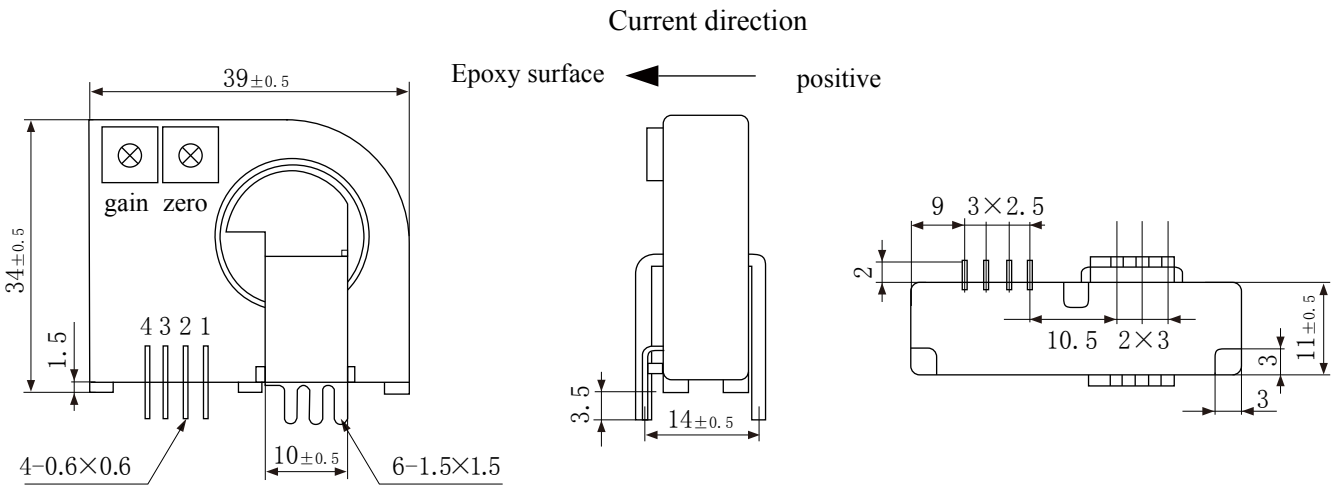
*If found shell, devices attached to the fixed parts, wire, or have any damaged, please immediately deal with hidden dangers.

*If there is any doubt about the safe operation of the equipment, the equipment and the corresponding accessories should be closed immediately, and the fastest time for troubleshooting.

Proclamations:

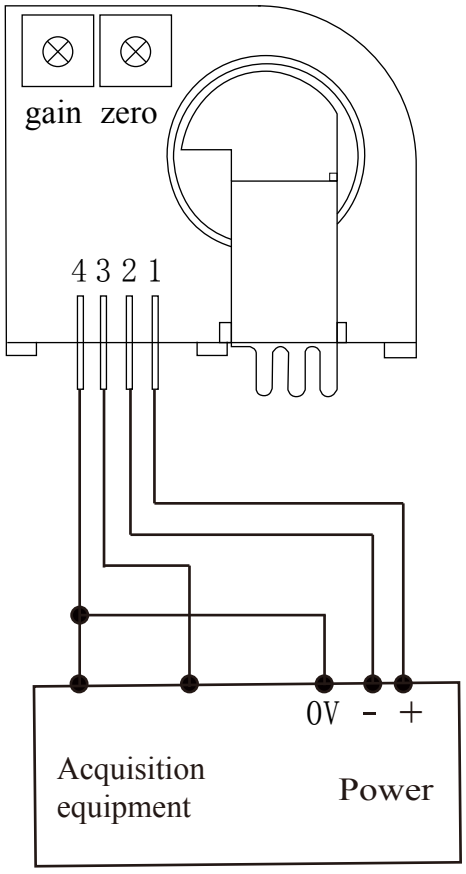
As our products are constantly being improved and updated, we reserve the right to modify the content of this specification at any time without prior notice.

Dimensions(in mm±0.5）：



Front view　　Side view　　Bottom view

Wiring diagram



Pin definition:

1: +V
2: -V
3: Vout
4: 0V

Potentiometer definition:

Left: gain
Right: zero

※Detection:

①Choose the auxiliary power supply with small ripple (≤10mV)
②Switch on auxiliary power
③The auxiliary power is connected to the sensor
④The sensor detects the primary current