

Hall closed loop current sensor

Sub-plate mount, terminal output. Detect DC, AC and pulse current, High insulation between primary side and the vice side circuit.



Front view



Epoxy view

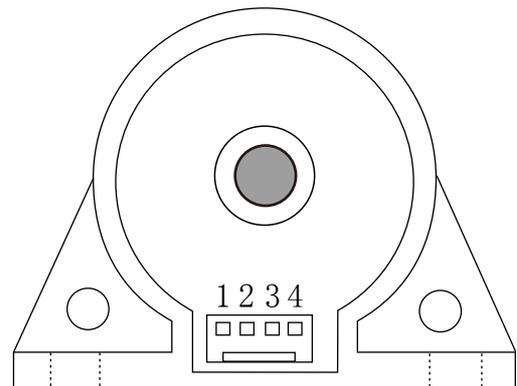


Fixed hole view

Installation diagram

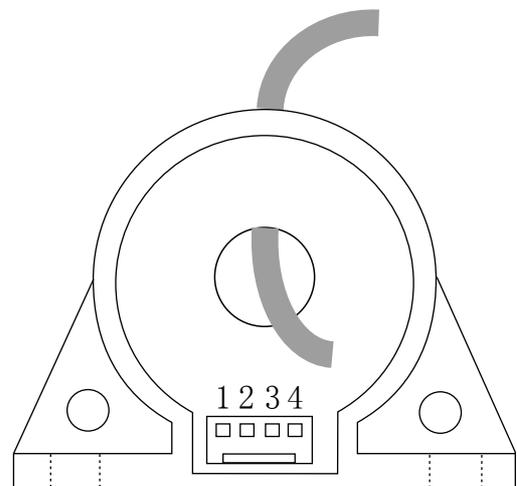
Product features

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



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:

I_{PN}	Rated input	$\pm 20A$	$\pm 50A$	$\pm 100A$	Standard input
I_{Pm}	Input measurement range	$\pm 30A$	$\pm 75A$	$\pm 150A$	The default is 1.5 times the rated input
V_{out}	Rated output	2.5V \pm 0.625V			Standard output
X	Accuracy	1%			$I=I_{PN}$
ϵ_L	Linearity	0.1%			$I=0 \sim \pm I_{PN}$
V_c	Supply voltage	+5V			Supply voltage range $\pm 5\%$
I_c	Current consumption	$\leq 15mA + I_s$			Reference will be subject to the measured
R_l	Load impedance	$\geq 10K \Omega$			Collection port impedance while lower voltage affect accuracy
V_{oe}	Zero offset voltage	$\leq \pm 15mV$			$T_A=25^\circ C$
T_r	Response time	$< 1 \mu s$			Reference will be subject to the measured
N_w	Weight	34g			Reference will be subject to the measured
T_a	Operation temperature	$-25 \sim +70^\circ C$			
T_s	Storage temperature	$-25 \sim +70^\circ C$			
Bw	Band width	DC \sim 150KHz			Factory test according to DC
V_d	Delectric strength	3.5KV 50Hz 1min			

Factory commissioning :

Calculation formula: 2.5V \pm 0.625V 0V datum

1. Debugging with 0V as the reference point(acquiescence) Forward direction: $2.5 + (I/I_{PN}) * 0.625$
2. Debug with V_{ref} as the reference point(optional) Reverse direction: $2.5 - (I/I_{PN}) * 0.625$

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

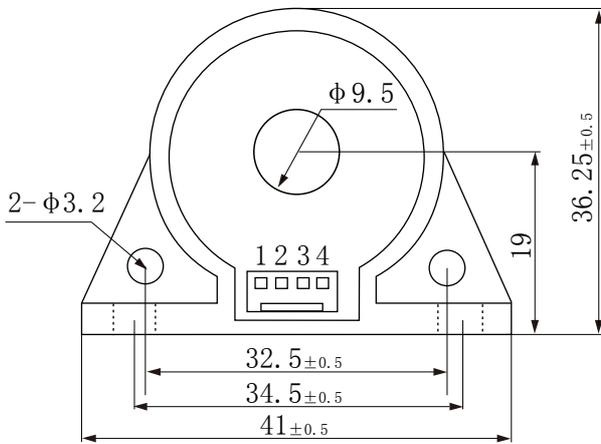
Safe operation:

- *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:

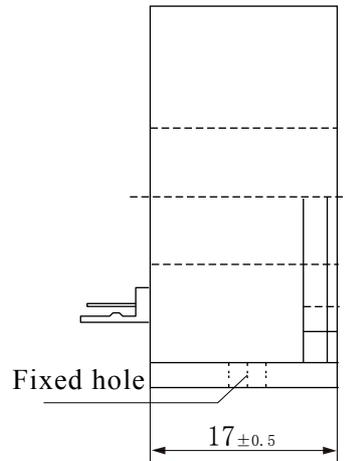
As our products are constantly being improved and updated, we reserve the right to modify the content of this specification at any time without prior notice.

Dimensions(in mm±0.5) :



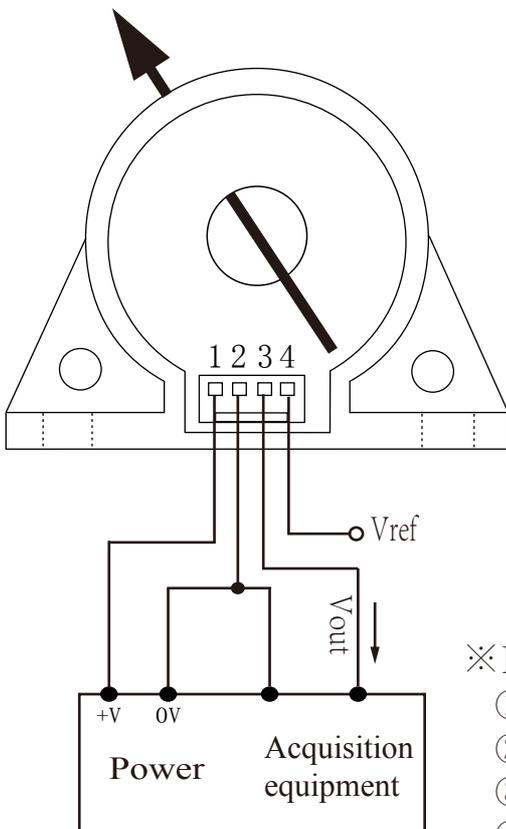
Front view

Current direction
Epoxy surface → positive



Side view

Wiring diagram (based on 0 V)



Connector Illustration :



Quick plug which spacing 2.54 mm

Terminal definition:

- 1: +V
- 2: 0V
- 3: Vout
- 4: Vref (It can be suspended, not grounded)

※ Detection :

- ① Choose the auxiliary power supply with small ripple ($\leq 10\text{mV}$)
- ② Switch on auxiliary power
- ③ The auxiliary power is connected to the sensor
- ④ The sensor detects the primary current