

Hall split core current sensor

Open loop split core type, hanging installation, cable output. Detect DC, AC and pulse current, High insulation between primary side and the vice side circuit.



Front view



Epoxy view

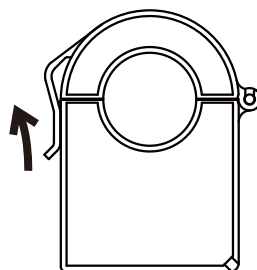


Opening view

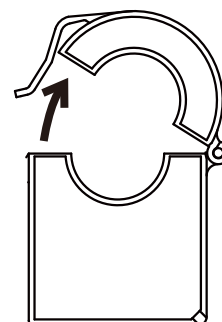
Installation diagram

Product features

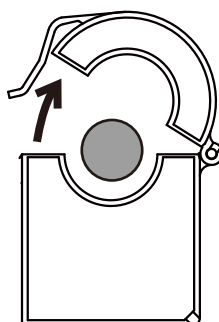
- Light weight
- Low power consumption
- Good linearity
- No insertion loss
- Fast response time
- Good anti-interference ability
- Protection grade:IP64



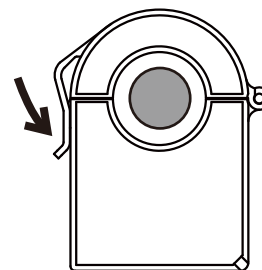
1.Loosen the card buckle



2.Open up



3.In the lead



4.Fasten card buckle

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	$\pm 50A$	$\pm 100A$	$\pm 200A$	$\pm 300A$	$\pm 400A$	$\pm 500A$	Standard input
I_{pm}	Input measurement range	$\pm 75A$	$\pm 150A$	$\pm 300A$	$\pm 450A$	$\pm 500A$	$\pm 500A$	Default is 1.5 times of rated input, and maximum $\leq 500A$ (saturation)
V_{out}	Rated output	2.5V \pm 0.625V						
X	Accuracy	1%						$I = I_{PN}$
ϵ_L	Linearity	1%						$I = 0 \sim \pm I_{PN}$
V_c	Supply voltage	+5V						Supply voltage range $\pm 5\%$
I_c	Current consumption	$\leq 16mA$						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	$\leq 5 \mu s$						Reference will be subject to the measured
N_w	Weight	60g						Reference will be subject to the measured
T_a	Operation temperature	$-10 \sim +70^\circ C$						
T_s	Storage temperature	$-25 \sim +70^\circ C$						
Bw	Band width	DC \sim 25KHz						Factory test according to DC
V_d	Delectric strength	2.5KV 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

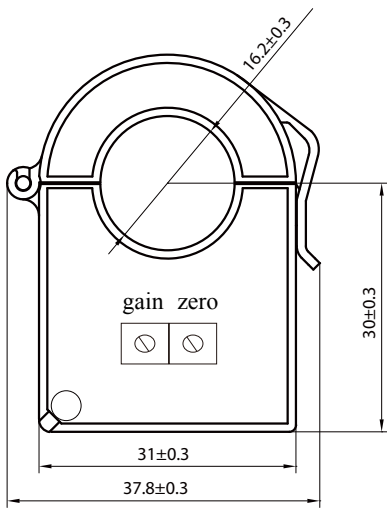
Safe operation:

- *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.

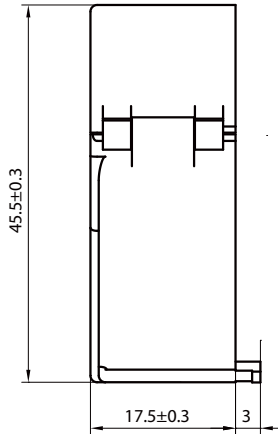
Dimensions(in mm±0.5) :



Front view

Cable:

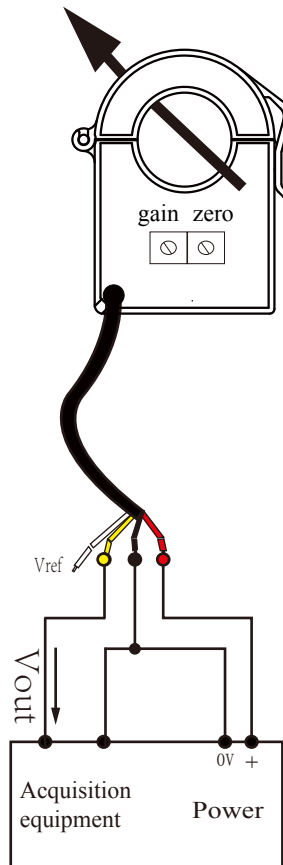
positive ← Epoxy surface



Side view

Cable specification:
0.2mm² four-core shielding wire
Four core colors:
red, black, yellow and white
Cable length: 50cm

Wiring diagram (based on 0 V)



Cable definition :

- red: +V
- black: 0V
- yellow: Vout
- white: Vref (Hoverability)

Potentiometer definition :

- Left: gain
- right: zero

※ Detection :

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