

## 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

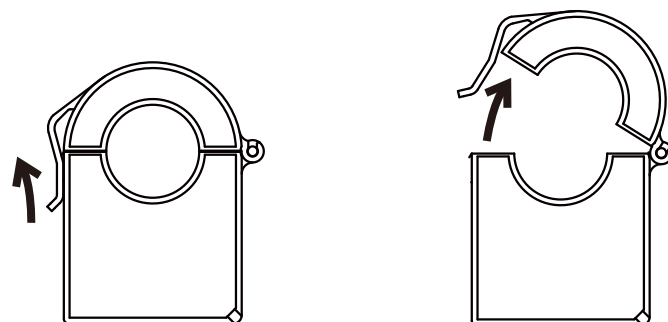


Opening view

## Installation diagram

### Product features

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

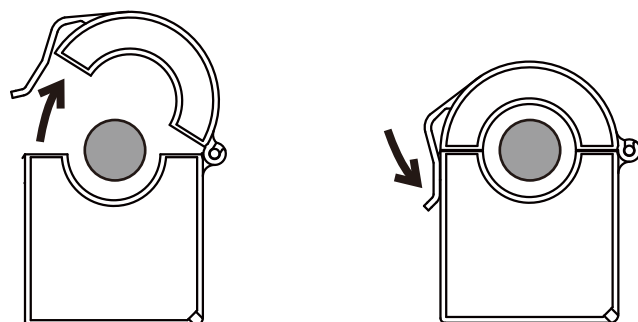


1. Loosen the card buckle

2. Open up

### Product application

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



3. In the lead

4. Fasten card buckle

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

**Remarks:**

$I_p$	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%						$I=I_p$
$\epsilon_L$	Linearity	1%						$I=0 \sim \pm I_p$
$V_c$	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:  $2.5 + (I/I_p) * 0.625$
2. Debug with  $V_{ref}$  as the reference point(optional) Reverse direction:  $2.5 - (I/I_p) * 0.625$

**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

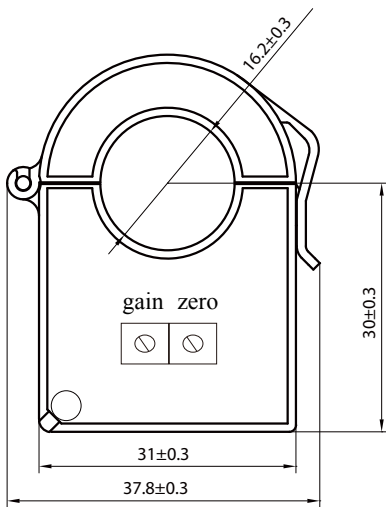
**Safe operation:**

- \*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.

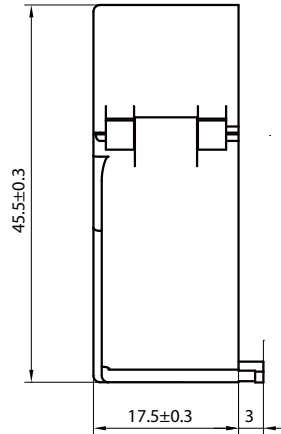
Dimensions(in mm±0.5) :



Front view

Cable:

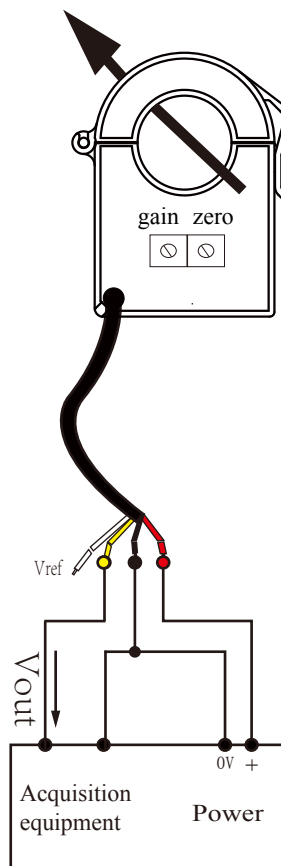
positive ← Epoxy surface



Side view

Cable specification:  
0.2mm<sup>2</sup> 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