

Hall open loop current sensor

Three phase integration, Detect DC,AC and pulse current, High insulation between primary side and the vice side circuit.

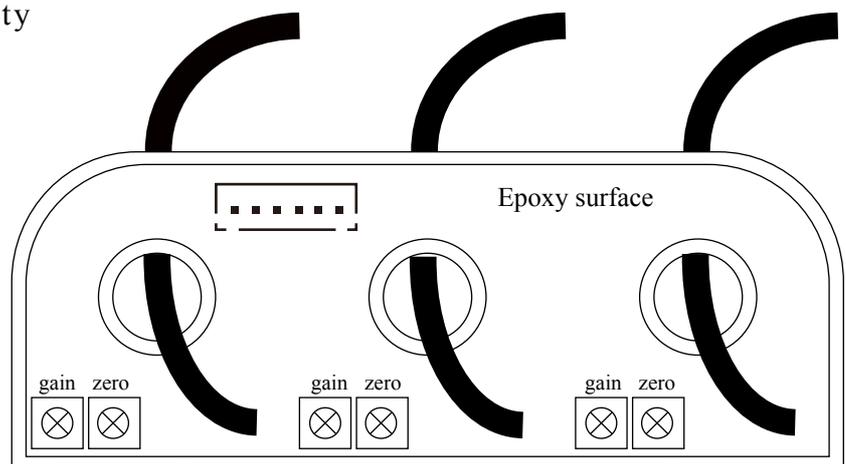


Product features

- 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	$\pm 50A$	$\pm 100A$	$\pm 200A$	$\pm 300A$	$\pm 400A$	Standard input can be customized
I_{PM}	Input measurement range	$\pm 75A$	$\pm 150A$	$\pm 300A$	$\pm 450A$	$\pm 600A$	The default is 1.5 times the rated input
V_{out}	Rated output	$\pm 4V$					Other outputs can be customized
X	Accuracy	1%					$I = I_{PN}$
ϵ_L	Linearity	1%					$I = 0 \sim \pm I_{PN}$
V_c	Supply voltage	$\pm 12V / \pm 15V$					One or the other Supply voltage range $\pm 5\%$
I_c	Current consumption	$\leq \pm 15mA$					Reference will be subject to the measured
Rl	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	$\leq 3 \mu s$					Reference will be subject to the measured
N.w	Weight	108g					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 50KHz					Factory test according to DC
Vd	Delectric strength	2.5KV 50Hz 1min					

Instructions for use:

1. Connect the wires correctly according to the marked connection mode
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

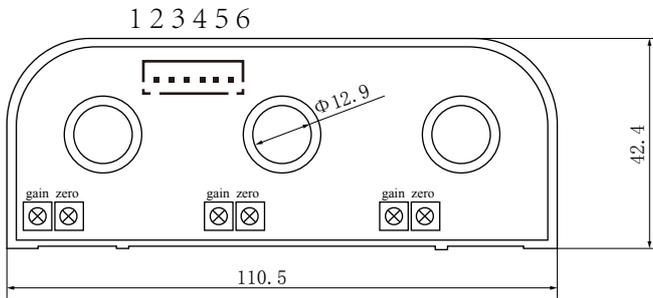
Safe operation:

- *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, fixed pieces, the power cord, connection cables, or connected to the equipment has any damage, please power off the device with immediately.
- *If running doubts about the safety of the equipment, all equipment must be switched off and the corresponding accessories, and in the fastest time of illness.

Proclamations:

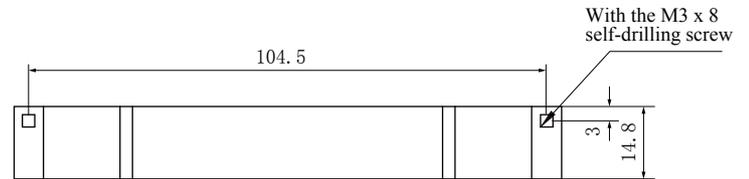
As our products are constantly being improved and updated, we reserve the right to modify the content of this specification at any time without prior notice.

Dimensions(in mm±0.5) :



Front view

Epoxy surface → positive

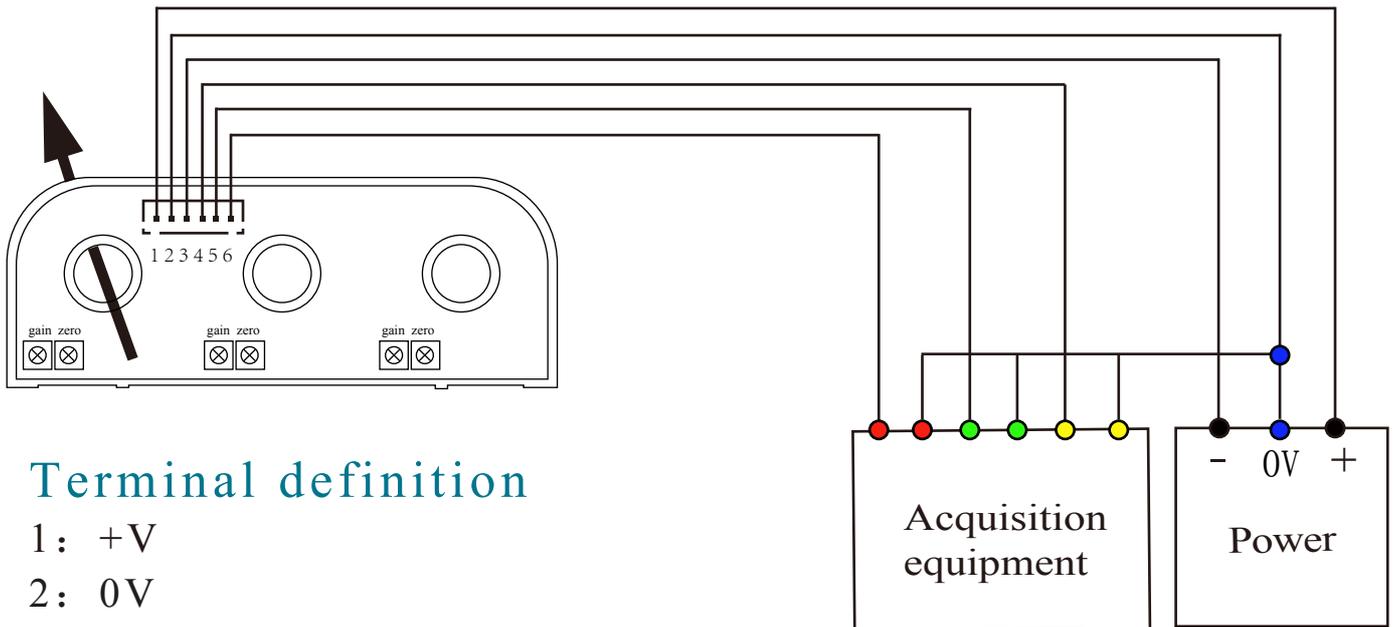


Bottom view



Crimp terminal: XH2.54-6P

Wiring diagram:



Terminal definition

- 1: +V
- 2: 0V
- 3: -V
- 4: OUT1
- 5: OUT2
- 6: OUT3

Potentiometer definition:

Left: gain
Right: zero

※ 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