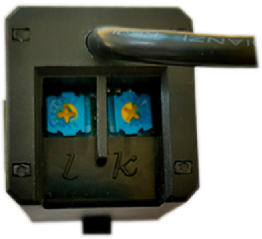
HSTS016L

Hall split core current sensor

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

Front view

Opening view

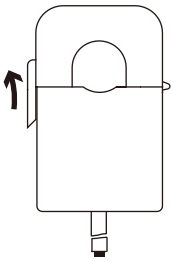


Potentiometer view

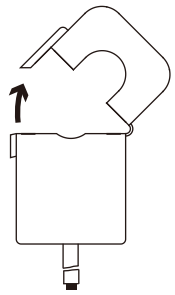
Product features

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

Installation diagram



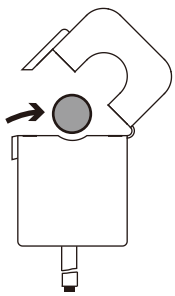
1.Loosen the card buckle



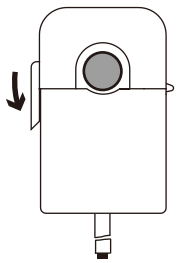
2.Open up

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_{PN}	Rated input	±10A	±20A	±30A	±50A	±100A	±150A	±200A	Standard input
Ipm	Input measurement range	±15A	±30A	±45A	±75A	±150A	±200A	±200A	Default is 1.5 times of rated input, and maximum ≤200A (saturation)
Vout	Rated output	2.5V±0.625V							Standard output
X	Accuracy	1%							$I=I_{PN}$
εL	Linearity	1%							$I=0\sim\pm I_{PN}$
Vc	Supply voltage	+5V							Supply voltage range±5%
Ic	Current consumption	≤12mA							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	≤5μs							Reference will be subject to the measured
N.w	Weight	81g							Reference will be subject to the measured
Ta	Operation temperature	-10～+70℃							
Ts	Storage temperature	-25～+70℃							
Bw	Band width	DC~25KHz							Factory test according to DC
Vd	Delectric strength	2.5KV 50Hz 1min							

Factory commissioning :

1. Debug with 0V as the reference point(acquiescence)
2. Debug with Vref as the reference point(optional)

Calculation formula：2.5V±0.625V 0V datum

Forward direction：$2.5+(I/I_{PN})*0.625$

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.

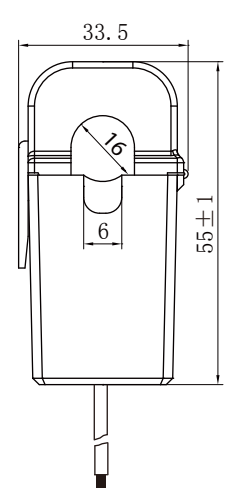
*If found shell, devices attached to the fixed parts, wire, or have any damaged, please immediately deal with hidden dangers.

*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.

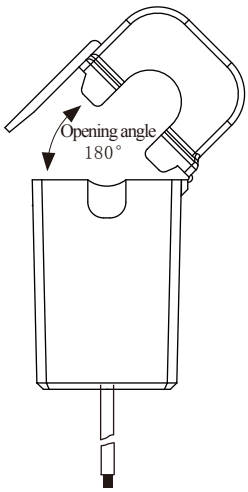
Proclamations:

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.

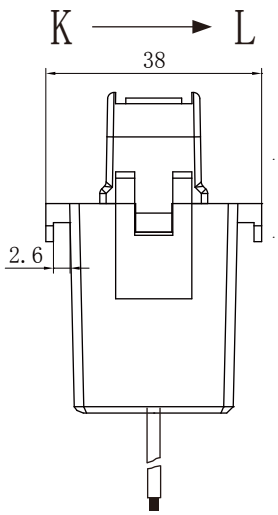
Dimensions(in mm±0.5）：



Front view



Current direction



Side view

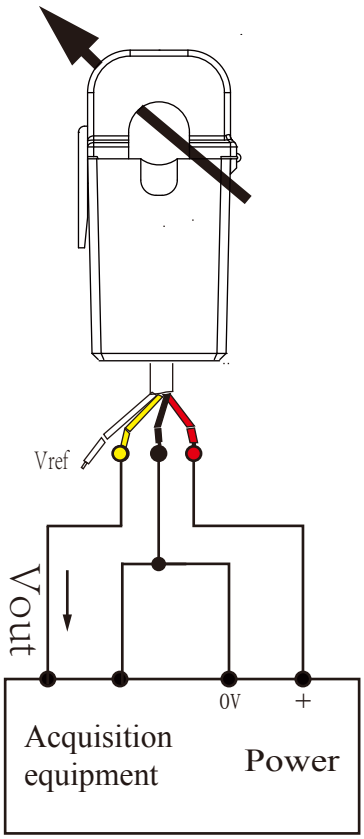
Cable：

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

Potentiometer definition：

K：zero

L：gain

※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