HASR25-3

YHDC® 1992

Hall closed loop current sensor

PCB mounting.Detect DC,AC and pulse current，High insulation between primary side and the vice side circuit.


Front view

Pin view

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

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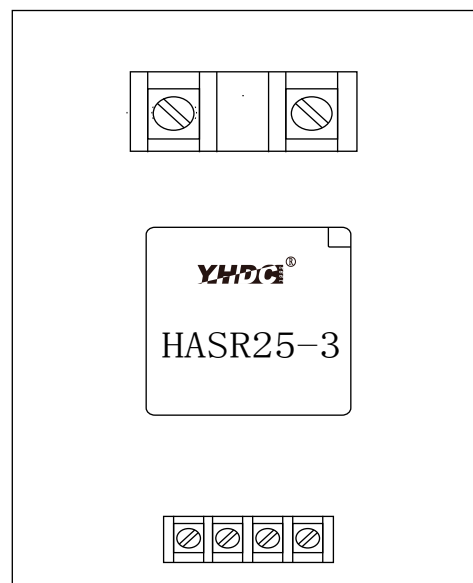
Electrical parameters: (The following parameters are typical values and actual values will be subject to product testing)

									Remarks:
Ip	Rated input	±0.25A	±0.5A	±1A	±1.5A	±2A	±3A	±5A	Standard input
Ipm	Input measurement range	±0.3A	±0.6A	±1.2A	±1.8A	±2.4A	±3.6A	±6A	The default is 1.2 times the rated input
Vout	Rated output	1.65V±0.625V							Standard output
X	Accuracy	1%							I=Ip
εL	Linearity	0.2%							I=0~±Ip
Vc	Supply voltage	+3.3V							Supply voltage range±5%
Ic	Current consumption	≤40mA							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	40~200μs							Reference will be subject to the measured
N.w	Weight	23g							Reference will be subject to the measured
Ta	Operation temperature	−25～+70℃							
Ts	Storage temperature	−25～+70℃							
Bw	Band width	–							Factory test according to DC (Rated input and turn ratio affect frequency range)
Vd	Delectric strength	2.5KV 50Hz 1min							

Factory commissioning :

1. Debugging 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: 1.65+（I/IP）*0.625

Reverse direction: 1.65-（I/IP）*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

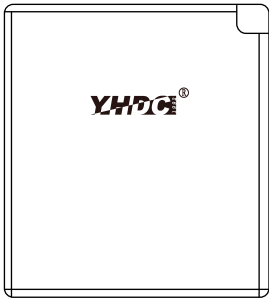4. Faulty wiring can lead to product damage and output uncertainty

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.
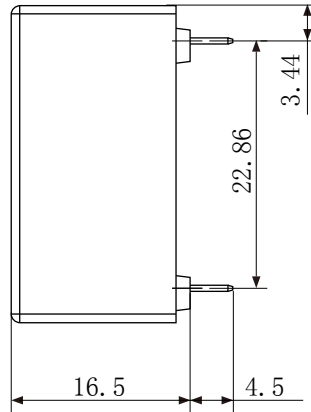
Proclamations:

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.
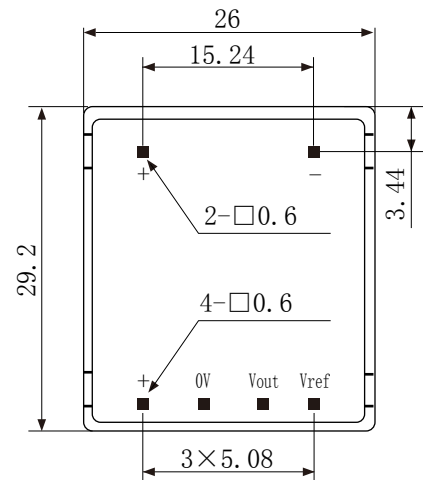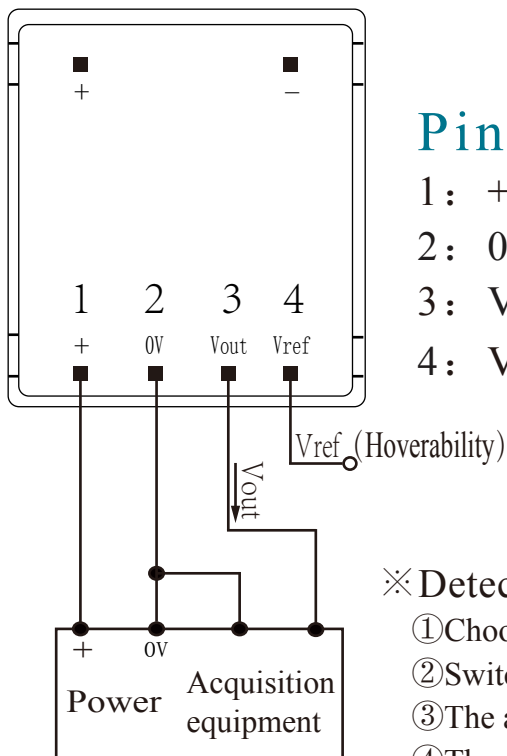
Dimensions(in mm±0.5）:

26
15.24
3.44
22.86
29.2
3.44
2-□0.6
4-□0.6
+   −
+   0V   Vout   Vref
3×5.08
16.5   4.5

Top View   Side view   Bottom view

Wiring diagram (based on 0 V)

+   −

1   2   3   4
+   0V   Vout Vref

Vref (Hoverability)

Vout

+   0V
Power   Acquisition
equipment

Pin definition：

1：+V

2：0V

3：Vout

4：Vref（It can be suspended, not grounded）

※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