

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

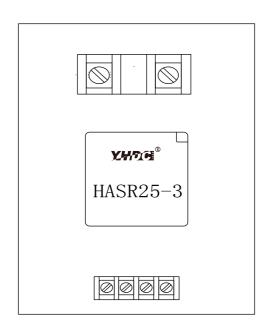
Product features

- ·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:

Ipn	Rated input	± 0.25 A	±0.5A	$\pm 1A$	±1.5A	$\pm 2A$	±3A	±5A	Standard input
Ipm	Input measurement range	±0.3A	±0.6 A	±1.2A	±1.8A	$\pm 2.4A$	±3.6A	±6A	The default is 1.2 times the rated input
Vout	Rated output	1.65 $V \pm 0.625V$							Standard output
X	Accuracy	1 %							I=I _{pn}
εL	Linearity	0.2%							$I=0^{\sim} \pm I_{pn}$
Vс	Supply voltage	+3.3V							Supply voltage range±5%
Ιc	Current consumption	$\leq 40\mathrm{mA}$							Reference will be subject to the measured
R1	Load impedance	≥10KΩ							Collection port impedance while lower voltage affect accuracy
Voe	Zero offset voltage	\leqslant \pm 15mV							TA=25°C
Tr	Response time	$40^{\sim}200~\mu$ s							Reference will be subject to the measured
N.w	Weight	23g							Reference will be subject to the measured
Ta	Operation temperature	$-25 \sim +70 ^{\circ}\text{C}$							
Ts	Storage temperature	-25 \sim $+70$ $^{\circ}$ C							
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:

Calculation formula: 2.5V±0.625V 0V datum

- 1. Debugging with 0V as the reference point(acquiescence) Forward direction: 1.65+ (I/I_{pn}) *0.625
- 2. Debug with Vref as the reference point(optional) Reverse direction: $1.65-(1/I_{pn})$ *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.

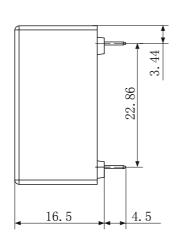
Proclamations:

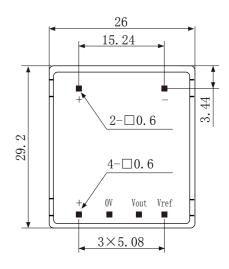
As our products are constantly being improved and updated, we reserve the right to modify the content of this specification at any time without prior notice.



Dimensions(in mm±0.5):





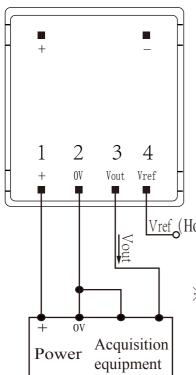


Top View

Side view

Bottom view

Wiring diagram (based on 0 V)



Pin definition:

1: +V

2: 0V

3: Vout

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

Vref (Hoverability)

X Detection:

- ①Choose the auxiliary power supply with small ripple ($\leq 10 \text{mV}$)
- ②Switch on auxiliary power
- ③The auxiliary power is connected to the sensor
- 4) The sensor detects the primary current