HKS16/A

YHDC ®

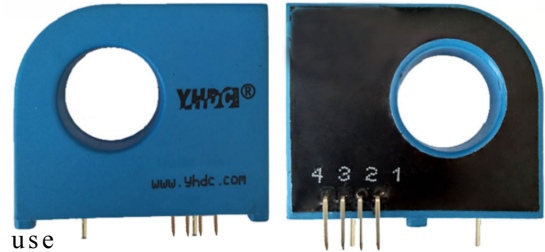Detect DC,AC and pulse current,high insulation between primary side and the vice side circuit.

Product picture printing is for reference only, subject to the actual product

Product application
- Metallurgy
- Welding mahine
- Robot
- Inverter power
- Inverter speed controller
- UPS uninterruptible power supply

Product features
- Light weight
- Low power consumption
- No insertion loss
- Fast response time
- Small size and beautiful appearance
- PCB installation and easy to use

Electrical parameters:the following parameters are typical values, the actual values shall be subject to the actual measurement of the product

Rated input	±50A	±100A	±200A	±300A	±400A
Input measurement range	±50A	±100A	±200A	±300A	±400A
Rated output	2.5V±2V				
Accuracy	1%（-10～+70℃）				
Linearity	1%				
Rated supply voltage	+5V±5%				
Absolute maximum voltage	$<6V^{(1)(2)}$				
Current consumption	≤26mA				
Load impedance	≥10KΩ				
Zero offset voltage	≤±15mV				
Response time	≤10μs				
Weight	29g				
Operation temperature	-10～+70℃				
Storage temperature	-25～+70℃				
Band width	DC~25KHz				
Delectric strength	2.5KV 50Hz 1min				

Calculation formula: 2.5V±2V
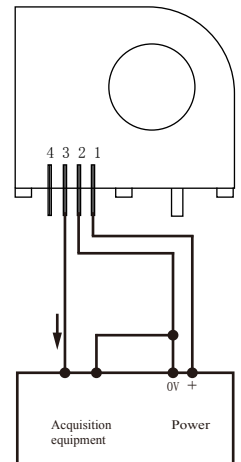
Forward direction：$2.5+(I/I_{PN})*2$

Reverse direction：$2.5-(I/I_{PN})*2$

I:Actual measured current
I_{PN}:Rated input

Pin definition:
1: V+
2: 0V
3: Vout
4: Vref

Wiring diagram:

Factory commissioning:
Debugging is based on 0V

Noted:
(1) The supply voltage exceeding the absolute maximum rating may cause permanent damage to the sensor!
(2) Prolonged exposure to any absolute maximum rating condition may affect the reliability and service life of the sensor!
(3) Need power protection circuit or other specifications please contact customer service!

Dimensions(in mm±0.5）:

Φ16

4 3 2 1

4-0.6×0.6   24.5±0.5

39±0.5   34±0.5   1.5   19.5±0.5   3.5

Front view

Current direction
Epoxy surface ◄ Positive

14±0.5   11

Side view

Welding needle (for fixed)

3×2.5   2-Φ1.2   6.5   10±0.5   19±0.5   6.5   3   3

Bottom view