

Hall voltage sensor

Sub-plate installation, Crimping terminal output. Detect DC, AC and pulse current, High insulation between primary side and the vice side circuit.



Side view



zero gain

Bottom view

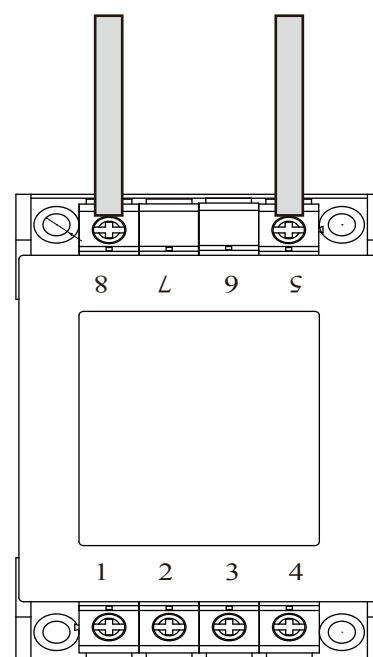
Product features

- 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

High side after wiring
Terminal proposal seal processing



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

Remarks:

I_{PN}	Rated input	$\pm 500V$	$\pm 700V$	$\pm 800V$	$\pm 900V$	$\pm 1000V$	Standard input
I_{pm}	Input measurement range	$\pm 750V$	$\pm 1050V$	$\pm 1200V$	$\pm 1300V$	$\pm 1500V$	Default is 1.5 times of rated input
V_{out}	Rated output	$2.5 \pm 0.625V$					Standard output
X	Accuracy	1%					$I = I_{PN}$
ϵ_L	Linearity	0.2%					$I = 0 \sim \pm I_{PN}$
V_c	Supply voltage	+5V					Supply voltage range $\pm 5\%$
I_c	Current consumption	$\leq 20mA + I_s$					Reference will be subject to the measured
R_l	Load impedance	$\geq 10K \Omega$					Collection port impedance while lower voltage affect accuracy
V_{oe}	Zero offset voltage	$\leq \pm 30mV$					$T_A = 25^\circ C$
T_r	Response time	$40 \sim 200 \mu s$					Reference will be subject to the measured
N.w	Weight	490g					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	-					Factory test according to DC
V_d	Delectric strength	3.5KV 50Hz 1min					

Factory commissioning :

Calculation formula: $2.5V \pm 0.625V$ 0V datum

1. Debugging with 0V as the reference point(acquiescence) Forward direction: $2.5 + (I/I_{PN}) * 0.625$
2. Debug with Vref as the reference point(optional) Reverse direction: $2.5 - (I/I_{PN}) * 0.625$

Instruction for use:

1. Correct wiring as indicated
2. Full scale measurement, response time and following the speed for the best
3. Faulty wiring can lead to product damage and output uncertainty

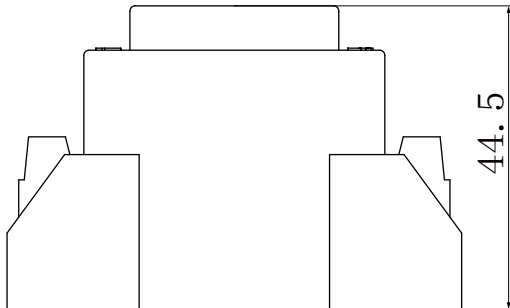
Safe operation:

- *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.

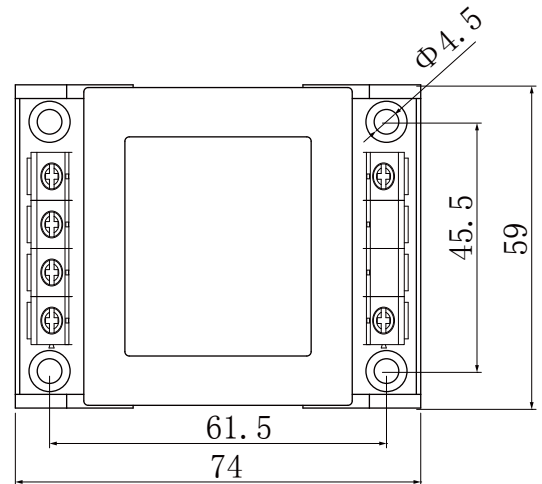
Proclamations:

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) :

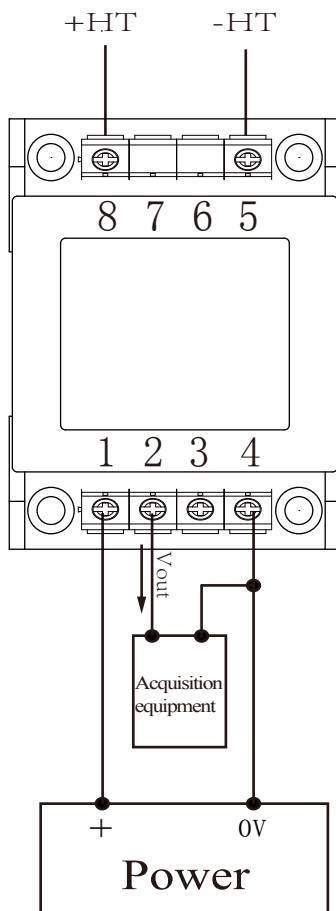


Side view



Top view

Wiring diagram:



Terminal definition:

- | | |
|---------|-----------------|
| 1: +V | |
| 2: Vout | |
| 3: Vref | |
| 4: 0V | |
| 5: -HT | 6: Air terminal |
| 8: +HT | 7: Air terminal |

※ 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