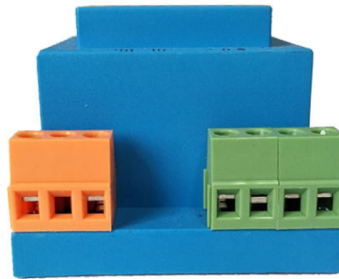


## Hall voltage sensor

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



Top view



Terminal view



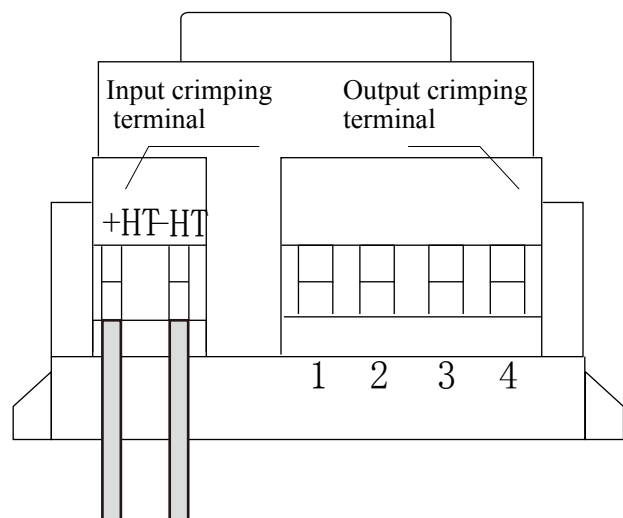
Bottom view

### 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:**

|              |                         |                        |            |            |            |            |            |   |
|--------------|-------------------------|------------------------|------------|------------|------------|------------|------------|---|
| $I_p$        | Rated input             | $\pm 50V$              | $\pm 100V$ | $\pm 200V$ | $\pm 300V$ | $\pm 400V$ | $\pm 500V$ | Standard input  |
| $I_{pm}$     | Input measurement range | $\pm 70V$              | $\pm 150V$ | $\pm 300V$ | $\pm 450V$ | $\pm 600V$ | $\pm 750V$ | Default is 1.5 times of rated input                           |
| $V_{out}$    | Rated output            | 2.5V $\pm$ 0.625V      |            |            |            |            |            | Standard output   |
| X            | Accuracy                | 1%                     |            |            |            |            |            | $I=I_p$   |
| $\epsilon_L$ | Linearity               | 0.2%                   |            |            |            |            |            | $I=0 \sim \pm I_p$  |
| $V_c$        | 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 ~ 200 $\mu s$       |            |            |            |            |            | Reference will be subject to the measured                     |
| N.w          | Weight                  | 103g                   |            |            |            |            |            | 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                                  |
| $V_d$        | Dielectric 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/IP ) \*0.625
2. Debug with  $V_{ref}$  as the reference point(optional) Reverse direction: 2.5- ( I/IP ) \*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

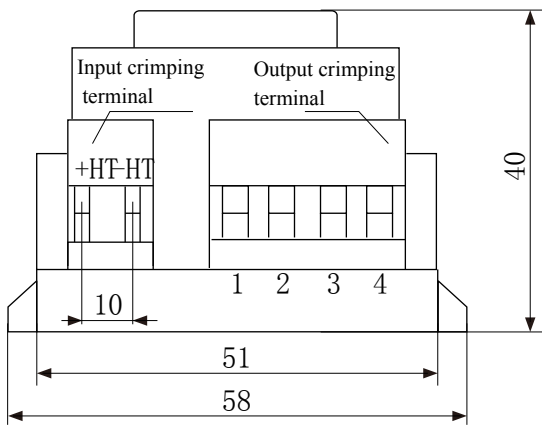
**Safe operation:**

- \*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.

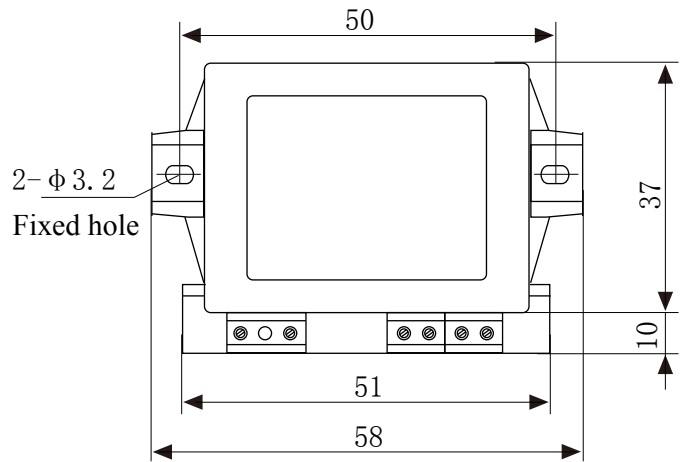
**Proclamations:**

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) :

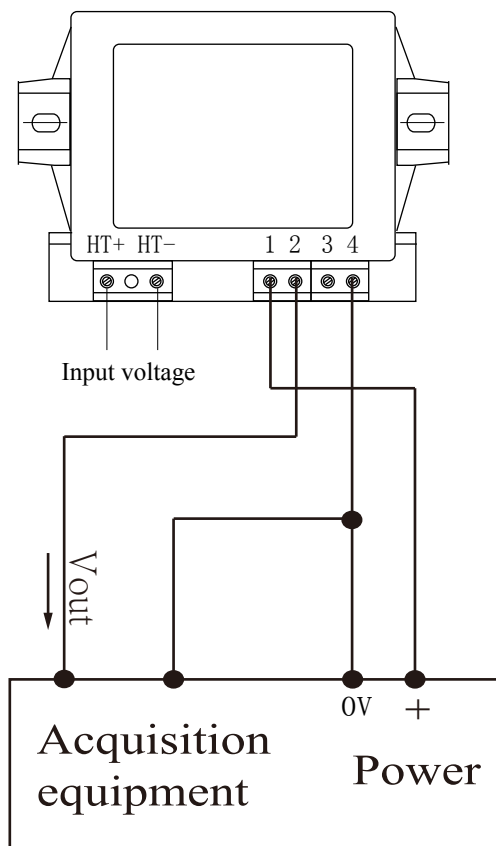


Side view



Top view

Wiring diagram:



**Terminal definition:**

- 1: +V
- 2: Vout
- 3: Vref
- 4: 0V

※ 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