HVS600GB

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.

Front view

Terminal view

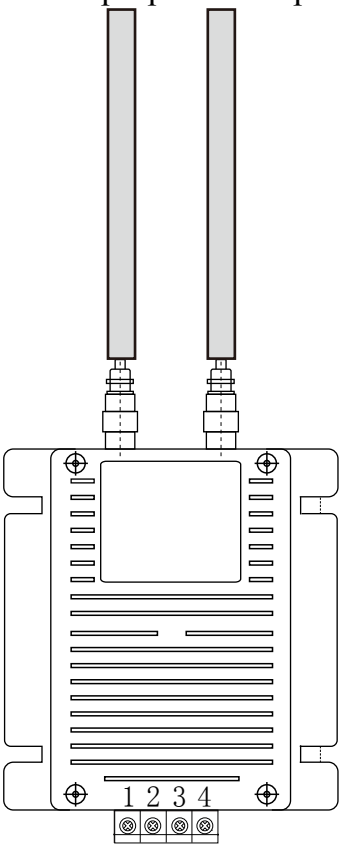
Fixed hole view

Product features

- Low power consumption
- Good linearity
- No insertion loss
- Fast response time
- Good anti-interference ability

High side after wiring

Terminal proposal seal processing



Product application

- Railway
- Metallurgical
- Welding machine
- Robot
- Motor
- Inverter power supply
- Variable frequency governor
- Uninterrupted power supply and communication power supply

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

Ip	Rated input	±2000V	±3000V	±4000V	±5000V	±6000V	±8000V	±10000V	Standard input
Ipm	Input measurement range	±3000V	±4500V	±6000V	±7500V	±9000V	±10000V	±10000V	Default is 1.5 times the rated input and ≤10KV
Vout	Rated output	2.5V±0.625V							Standard output
X	Accuracy	1%							I=Ip
εL	Linearity	0.2%							I=0~±Ip
Vc	Supply voltage	+5V							Supply voltage range±5%
Ic	Current consumption	≤20mA+Is							Reference will be subject to the measured
Rl	Load impedance	≥10KΩ							Collection port impedance while lower voltage affect accuracy
Voe	Zero offset voltage	≤±30mV							TA=25℃
Tr	Response time	40~200μs							Reference will be subject to the measured
N.w	Weight	2.5kg							Reference will be subject to the measured
Ta	Operation temperature	-10～+70℃							
Ts	Storage temperature	-25～+70℃							
Bw	Band width	-							Factory test according to DC
Vd	Delectric strength	10KV 50Hz 1min							

Remarks:

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：2.5+（I/IP）*0.625

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.

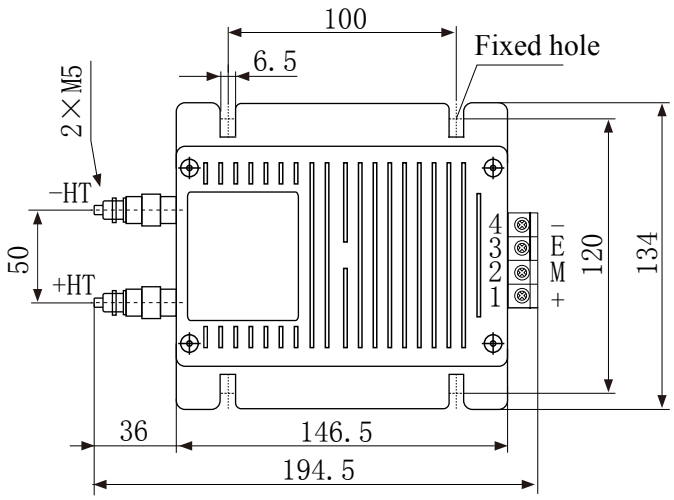
*If found shell, devices attached to the fixed parts, wire, or have any damaged, please immediately deal with hidden dangers.

*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.

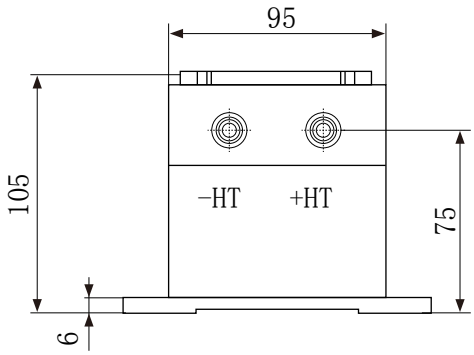
Proclamations:

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）：

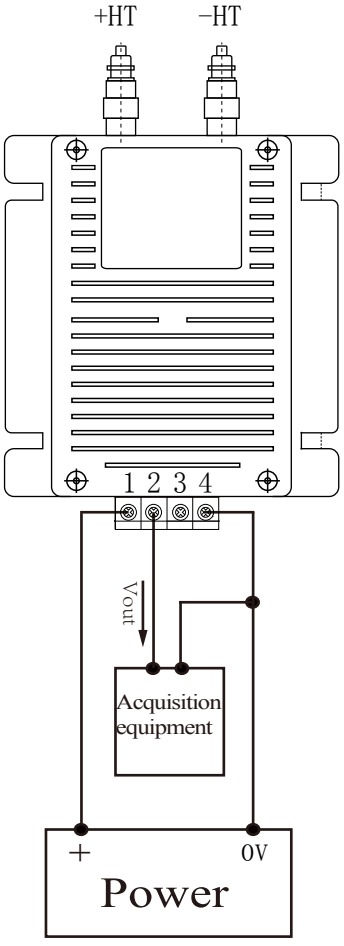


Top view



Side view

Wiring diagram:



Terminal definition：

1：+V

2：Vout

3：Vref

4：0V

+HT：Measure the positive voltage pole

-HT：Measure the negative voltage

※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