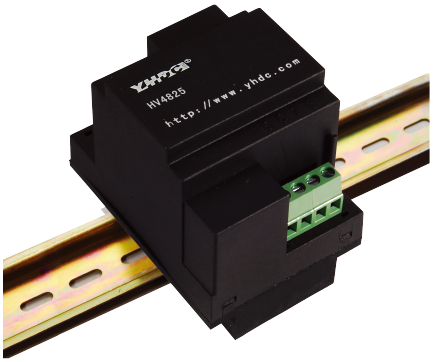
HVS4825

Hall voltage sensor

Din-rail indtallation, Crimping terminal output.Detect DC,AC and pulse current, High insulation between primary side and the vice side circuit.

Front view



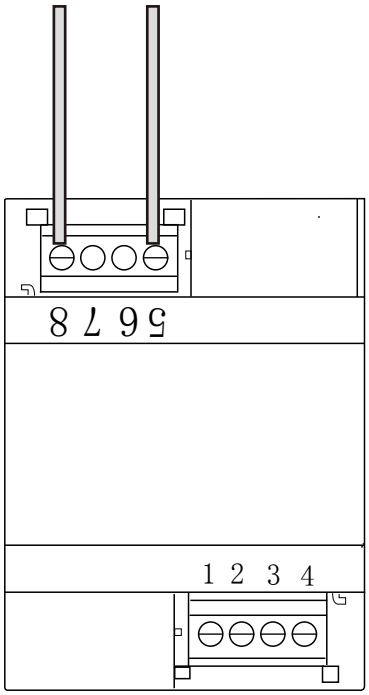
Bottom view

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	±50V	±100V	±200V	±300V	±400V	±500V	Standard input
Ipm	Input measurement range	±70V	±150V	±300V	±450V	±600V	±750V	Default is 1.5 times of rated input
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	≤±15mA+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	191g						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	3.5KV 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.

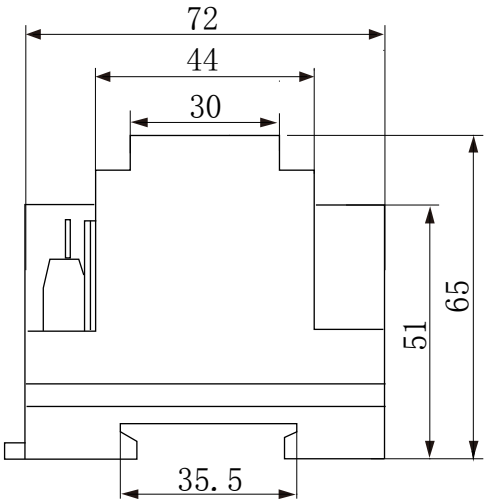
*If found shell, devices attached to the fixed parts, wire, or have any damaged, please immediately deal with hidden dangers.

*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.

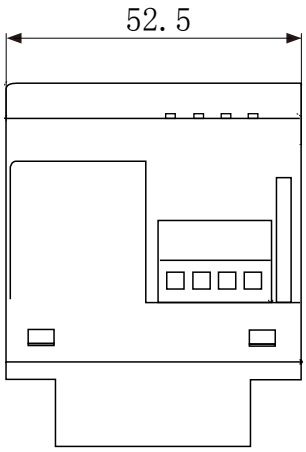
Proclamations:

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.

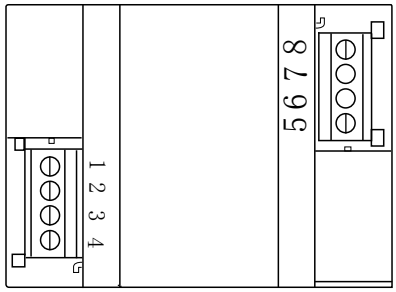
Dimensions(in mm±0.5）：



Front view

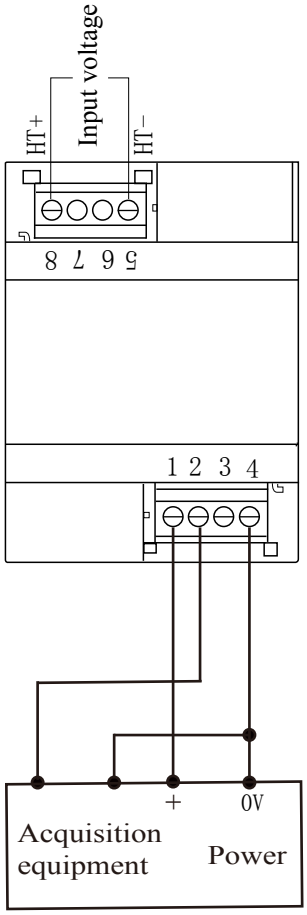


Side view



Top View

Wiring diagram:



Terminal definition：

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

※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