

HS23-C SERIES CURRENT SENSOR/TRANSDUCER

1. Features:

- ①The opening and closing type through the heart , the terminal leads out;
- ②Open-loop Hall effect principle, fast response, low current consumption;
- ③For testing DC, AC and pulsating current;
- ④Fully enclosed, high isolation and pressure resistance;
- ⑤High mechanical strength, high temperature and high humidity environment.

2. Ambient conditions:

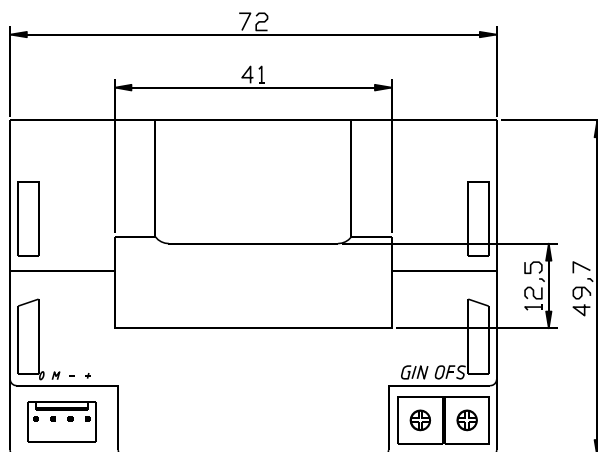
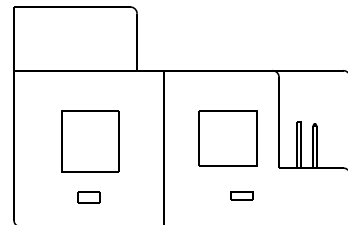
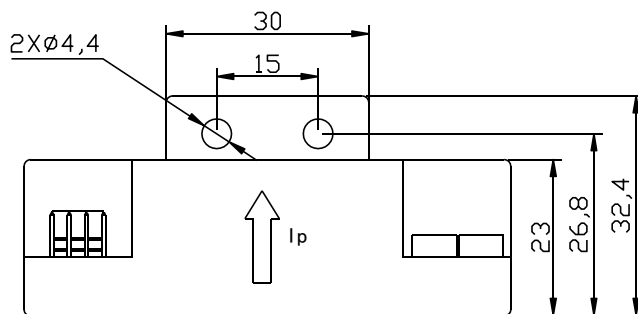
- ①Working environment temperature: $-25\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$;
- ②Storage environment temperature: $-25\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$;
- ③Relative humidity: $\leq 90\%$ when the temperature is $40\text{ }^{\circ}\text{C}$, no condensation;
- ④Atmospheric pressure: 860~1060mbar (about 650 ~ 800mmHg) .

3. Safety features:

- ①Insulation resistance: greater than $1000\text{M}\Omega$ in normal state ;
- ②Dielectric strength: can withstand power frequency 4000V/1 minute;
- ③Flame retardancy: in line with UL94-V0 standard;
- ④Insulation heat resistance class: B class ($130\text{ }^{\circ}\text{C}$) .



4. Outline drawing and installation dimensions: as shown in the following figure (Unit : mm)



Instruction:

+: +15V

-: -15V

M: Vout

0: GND

GIN: magnitude regulation

OFS: zero point adjustment

5. Performance Data

Model Technical Parameter	HS23- 200A-C	HS23- 300A-C	HS23- 400A-C	HS23- 500A-C	HS23- 600A-C
Rated input current IPN	200A	300A	400A	500A	600A
Measuring range IPM	±300A	±450A	±600A	±750A	±900A
Rated output voltage VSN	4V±40mV				
Operating Voltage	±12 ~ ±15VDC(±5%)				
Current consumption	±20mA				
Load Resistance	≥10kΩ				
Linearity	<±1%				
Zero offset voltage	<±20mV				
Response time	<1μs				
Bandwidth	DC to 50kHz				
Temperature drift	<±1mV/ °C				

6. Instructions for use and precautions

- ① In order to obtain a positive output voltage at the output, the input current must flow in the direction indicated by the arrow.
- ② When using, first connect the load and connect the working voltage (± 15V), and then connect the input current.
- ③ Secondary connection :
 - + : +15VDC
 - : -15VDC
 - M** : output terminal
 - 0** : ±15V supply relative to zero

7. Applications

- DC frequency conversion speed regulation, servo motor
- Switched Mode Power Supplies, Uninterruptible Power Supplies
- Inverter power supply
- Automotive Electronics
- Power supplies for welding applications