HS07-C SERIES CURRENT SENSOR/TRANSDUCER

1. Features

① Adopt vertical core-through method, the terminal is drawn out;
② Small and beautiful appearance;
③ For measuring AC, DC, pulsating current;
④ Fully enclosed structure, high isolation and pressure resistance;
⑤ High mechanical strength, high temperature and high humidity environment;
⑥ Open-loop Hall effect principle, fast response.

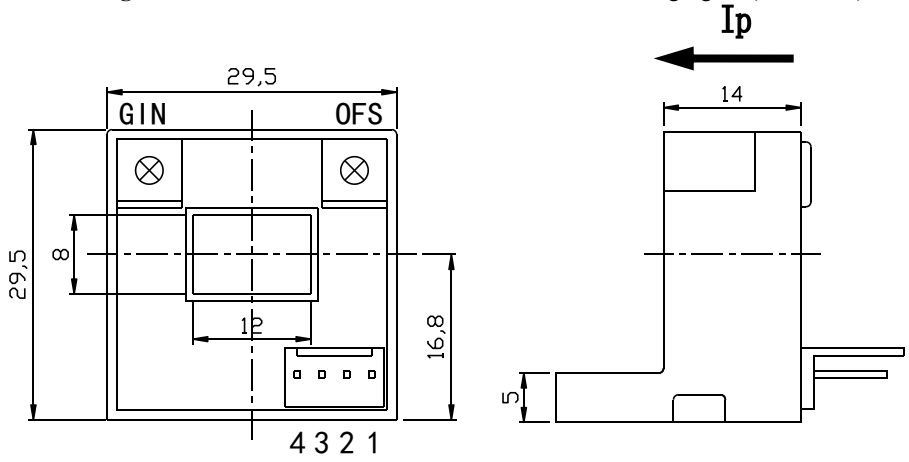
2. Ambient conditions

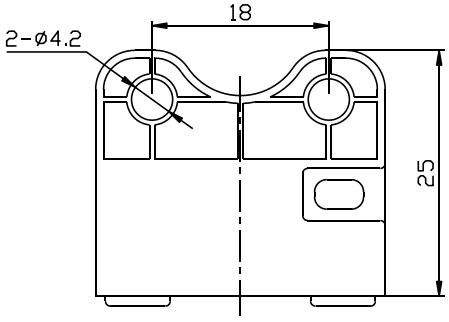
① Ambient temperature: -25℃~ +85℃ ;
② Storage environment temperature: -40℃~ +100 ℃;
③ Relative humidity: ≤ 90% at 40 ℃ , no condensation;
④ Atmospheric pressure: 860~1060mbar (about 650 ~ 800mmHg) .

3. Safety features:

① Dielectric resistance: >1000MΩ in normal condition ;
② Insulation withstand voltages: 3000V/1 min;
③ Fire retardancy: in line with UL94-V0 standard;
④ Insulation rating: Class B (130℃) .

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





Instruction:
1:+15V
2:-15V
3:OUT
4:0V
OFS:zero-point adjustment
GIN:magnitude regulation

5. Performance parameters

Model / Technical parameter	HS07-50A-C	HS07-100A-C	HS07-150A-C	HS07-200A-C
Rated input current I_{PN}	50A	100A	150A	200A
Measuring range	0 to ±100A	0 to ±200A	0 to ±300A	0 to ±400A
Rated output voltage V_{SN}	4V			
Load Resistance	≥10kΩ			
Operating Voltage	±15V DC(±5%)			
Current consumption	<20 mA			
Linearity	<1%			
Zero offset voltage	IP = 0	30m V		
Offset voltage temperature drift	IP = 0	<±1mV/℃		
Bandwidth	DC to 20kHz			
Response time	<3μs			
Temperature drift	<±0.01%/℃			

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

V_O : output terminal

GND : ±15V power relative to zero

7. Typical applications

- DC variable speed regulation, servo motor drives
- Switched Model Power Supplies
- Uninterruptible Power Supplies
- Inverter power supplies
- Automotive Electronics
- Power supplies for welding applications