

HNC-1000ES Series Hall Current Sensor

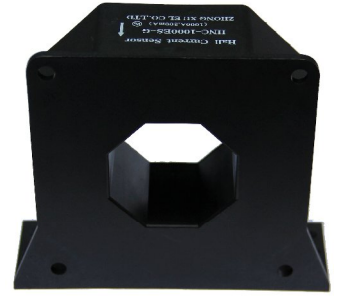
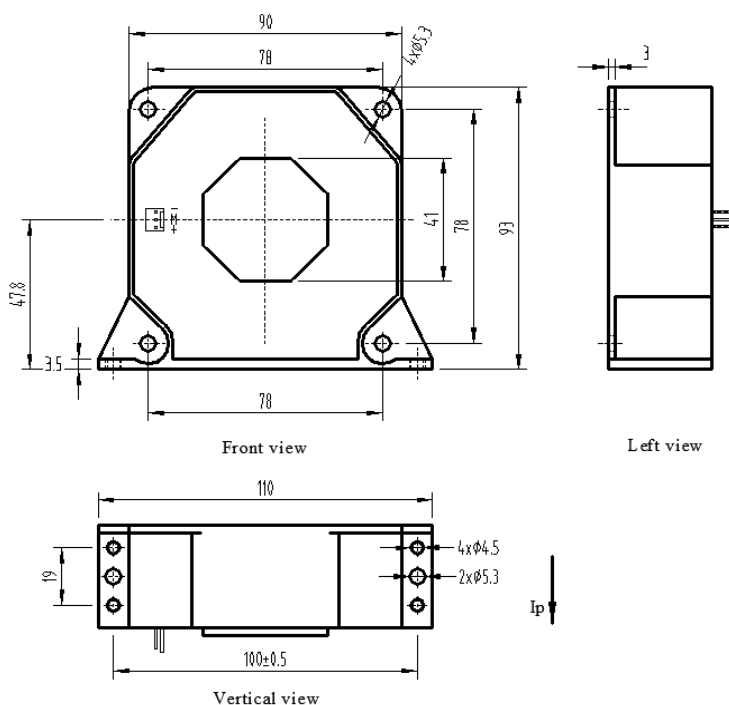
Introduction

HNC-1000ES Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

△Electrical Parameters (Ta=25°C)

Type		HNC-800ES	HNC-1000ES
Parameters	Symbols		
Nominal measuring current	I_{PN}	800A	1000A
Linear range	I_P	0~±1500A	0~±1500A
Turns ratio	K_N	1:4000	1:5000
Secondary coil resistance	R_i	40Ω	45Ω
Nominal output current	I_{SN}	200 mA	200 mA
Zero offset current	I_o	≤ ±0.4 mA	
Linear error	ξ_L	±0.1%	
Supply voltage	V_C	±15V~±24V ±5%	
Response time	T_r	≤1 μS	
Temperature drift of bridge offset	I_{OT}	≤ ±0.7mA	
Recommended load resistance	R_M	10 Ω~60 Ω @±24V 0 Ω~15 Ω @±15V	
Power dissipation current	I_C	(30+ I_S) mA	
Isolation voltage	V_d	6.0KV/50 or 60Hz/1min	
Frequency bandwidth	f	DC~ 100KHZ (-3dB)	
Operating temperature	T_a	-25°C~+85°C	
Storage temperature	s	-40°C~+90°C	

△Dimension: (mm)



Features:

- ◆ Use close-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆ High precision
- ◆ Excellent linearity
- ◆ Low temperature drift
- ◆ Optimized response time
- ◆ Wide frequency bandwidth
- ◆ Punching way has no insertion loss
- ◆ Dimidiate structure, easy for mounting

Applications:

- ◆ AC variable-frequency speed control system and servo motor
- ◆ Uninterruptible power suppliers (UPS)
- ◆ Battery supply
- ◆ Power supply for electric welding machine
- ◆ Communication power supply

Instructions for Use:

- ◆ Connect the wire of transducer in correct way as required.
- ◆ Inputting measured current from punched core of transducer, the in-phase current signal can be obtained from output end by sampling.
- ◆ The arrow indicates positive current direction.

Connection and adjustment:

- ◆ -: -Vc (-15V)
- ◆ M: output
- ◆ +: +Vc (+15V)