HNC-1500LF Series Hall Current Sensor

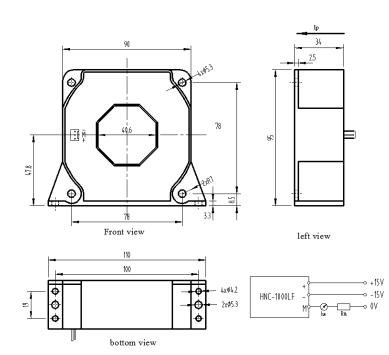
Introduction

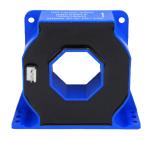
HNC-1500LF Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

\triangle Electrical Parameters (Ta=25°C)

Type					
Parameters	Symbols	HNC-600LF	HNC-800LF	HNC-1000LF	HNC-1500LF
Nominal measuring current	I_{PN}	600A	800A	1000A	1500A
Linear range	I_P	0~±1000A	0~±2000A	0~±2000A	0~±2000A
Turns ratio	K_N	1:5000	1:5000	1:5000	1:5000
Coil resistance	R_{i}	45Ω	45Ω	45Ω	45Ω
Nominal output current	I_{SN}	±120mA±0.6mA	±160mA±0.8mA	±200mA±1mA	±300mA±1.5mA
Zero offset current	Io	≤±1.0mA			
Linear error	$\xi_{ m L}$	±0.2%			
Supply voltage	Vc	±15V ±5%~±24V ±5%			
Response time	Tr	≤1 µ S			
Power dissipation current	I_{C}	(30+Is) mA			
Temperature drift of bridge offset	I _{OT}	≤±0.8mA			
Recommended load resistance	RM	5~50Ω	5~40Ω	5~30Ω	5~20Ω
Isolation voltage	V_{d}	3.0KV/50 or 60H _Z /1min			
Frequency bandwidth	f	DC~ 100KH _Z (-1dB)			
Operating temperature	Та	-25°C~+85°C			
Storage temperature	Ts	-40℃~+90℃			

\triangle Dimension: (mm)





Features:

- ◆ Use close-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆Excellent linearity
- ◆Optimized response time
- ◆Punching way has no insertion loss
- ◆High immunity against external disturbance

Applications:

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

Instructions for Use:

- ◆Connect the wire of transducer in correct way as required.
- ◆Inputting measured current from input end 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)