HNC151-100 Series Hall Current Sensor

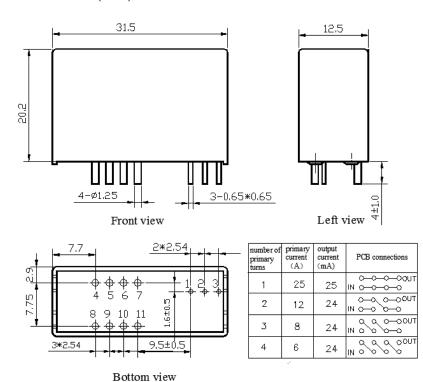
Introduction

HNC151-100 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	HNC151-100	
Nominal measuring current	I_{PN}	25A	
Linear range	I_P	0~±50A	
Turns ratio	K_N	1-2-3-4:1000	
Coil resistance	Ri	45Ω	
Nominal output current	I_{SN}	25 mA±0.5%	
Zero offset current	Io	$\leq \pm 0.3 \text{mA}(I_{PN}=0)$	
Linear error	$\xi_{ m L}$	±0.2%	
Supply voltage	Vc	±15V ±5%	
Response time	Tr	≤1 μ S	
Temperature drift of bridge offset	I_{OT}	≤±0.6mA	
Power dissipation current	I_C	(15+ K*I _P /1000) mA	
Recommended load resistance	RM	54~360 Ω	
Isolation voltage	V_d	3.0KV/50 or 60Hz/1min	
Frequency bandwidth	f	DC~ 200KH _Z (-3dB)	
Operating temperature	Та	-25°C~+85°C	
Storage temperature	Ts	-40℃~+90℃	

△Dimension: (mm)





Features:

- ◆ Use close-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆High precision
- ◆Low temperature drift
- ◆ Wide frequency bandwidth
- ◆ High immunity against external disturbance

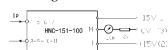
Applications:

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

Pin arrangement:



- ♦1: -Vc (-15V)
- **♦**2: +Vc (+15V)
- ◆3: Output
- ♦4-7: primary In
- ♦8-11: primary Out