# **HNC151-104 Series Hall Current Sensor**

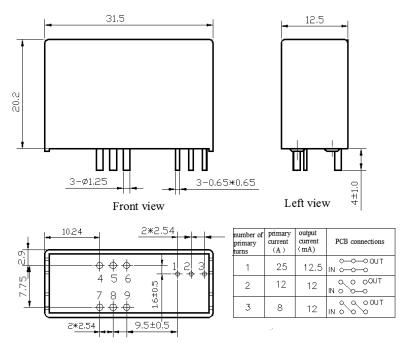
## Introduction

HNC151-104 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)

Туре		
Parameters	Symbols	HNC151-104
Nominal measuring current	I <sub>PN</sub>	25A
Linear range	Ip	0~±55A
Turns ratio	$K_{\rm N}$	1-2-3:2000
Coil resistance	Ri	140Ω
Nominal output current	I <sub>SN</sub>	12.5 mA±0.5%
Zero offset current	Io	$\leq \pm 0.3$ mA(I <sub>PN</sub> =0)
Linear error	$\xi_{\rm L}$	±0.3%
Supply voltage	Vc	±15V ±5%
Response time	Tr	≤1 µ S
Temperature drift of bridge offset	I <sub>OT</sub>	≤±0.6mA
Power dissipation current	I <sub>C</sub>	(15+ K*I <sub>P</sub> /2000) mA
Recommended load resistance	Rм	100~700 $\Omega$ at ±25A Max 100~200 $\Omega$ at ±55A Max
Isolation voltage	V <sub>d</sub>	3.0KV/50 or 60Hz/1min
Frequency bandwidth	f	DC~ 100KHz (-3dB)
Operating temperature	Та	-25℃~+85℃
Storage temperature	Ts	-40°C~+90°C

# $\triangle$ Dimension: (mm)



Bottom view

ZhongXu	CE
HNC151 -	104
0358	-+0
	-+0

## 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

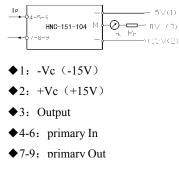
♦Battery supply

### 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:



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