# **HNC-200B/C Series Hall Current Sensor**

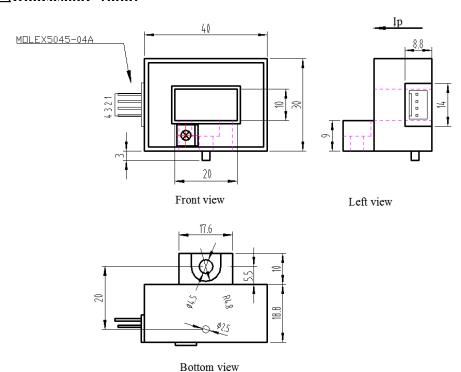
#### Introduction

HNC-200B/C 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)

AETECUTICAL L'ALAMETERS (14–25 C)					
Туре		HNC-25B/C	HNC-50B/C	HNC-100B/C	HNC-200B/C
Parameters	Symbols	111.10 202/0	111 (C 30B) C	III.C 100B/C	111 (C 200B) C
Nominal measuring current	$I_{PN}$	25A	50A	100A	200A
Linear range	$I_P$	0~±38A	0~±75A	0~±150A	0~±250A
Turns ratio	$K_N$	1:1000	1:1000	1:2000	1:2000
Coil resistance	$R_{i}$	35Ω	35Ω	86Ω	86Ω
Nominal output current	$I_{SN}$	25 mA	50mA	50mA	100mA
Recommended load resistance	$R_{M}$	80~430Ω	45~200Ω	45~130Ω	0~15Ω
Zero offset current	Io	±0.1 mA Type ±0.3mA Max			
Linear error	$\xi_{ m L}$	< 0.15%			
Supply voltage	Vc	±15V ±5%			
Response time	Tr	≤1 µ S			
Temperature drift of bridge offset	$I_{OT}$	±0.15mA Type ±0.5mA Max			
Power dissipation current	$I_{C}$	(15+Is) mA			
Isolation voltage	$V_d$	2.5KV/50 or 60Hz/1min			
Frequency bandwidth	f	DC~ 100KH <sub>Z</sub> (-3dB)			
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
- ◆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.
- ◆ The arrow indicates positive current direction.

#### Connection and adjustment:

- **♦**1: +Vc (+15V)
- ◆2: -Vc (-15V)
- ♦3: Output
- **♦**4: NC