HNC-25SYB Series Hall Current Sensor

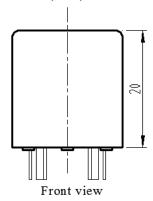
Introduction

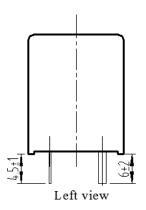
HNC-25SYB Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

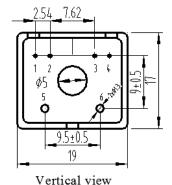
\triangle Electrical Parameters (Ta=25°C)

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Parameters	Symbols		HNC-05SYB	HNC-10SYB	HNC-20SYB	HNC-25SYB
Nominal measuring current	I_{PN}	3A	5A	10A	20A	25A
Linear range	I_P	0~±6A	0~±10A	0~±20A	0~±40A	0~±50A
Turns ratio	K_N	13:1000	8:1000	4:1000	2:1000	2:1000
Nominal output voltage	V_{SN}	$\pm 4V\pm 0.04V(R_L=10K~\Omega~)$				
Zero offset voltage	Vo	≤±30 mV				
Temperature drift of bridge offset	V _{OT}	≤±1 mV/°C				
Linear error	$\xi_{ m L}$	±0.25%				
Response time	Tr	≤1 µ S				
Supply voltage	Vc	±15V±5%				
Isolation voltage	V_d	2.0KV/50 or 60H _Z /1min				
Power dissipation current	I_{C}	(15+N*I _p /1000) mA				
Frequency bandwidth	f	DC~100KH _Z (-3dB)				
Operating temperature	Та	-25℃~+85℃				
Storage temperature	Ts	-40°C∼+90°C				

△Dimension: (mm)







Diameter of Primary Conductor Terminals 5(-),6(+) HNC-05SYB....0.6 mm HNC-10SYB....0.8 mm HNC-15SYB....1.0 mm HNC-20SYB....1.0 mm HNC-25SYB....1.2 mm



Features:

- ◆ Use close-loop current transducer based on Hall effect
- ◆Pass UL certification (S.N.: E466588)
- ◆Output voltage signal
- ◆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 voltage signal can be obtained from output end by sampling.

Pin arrangement:

- ♦1: Output
- **♦**2: +Vc (+15V)
- ♦3: -Vc (-15V)
- ♦4: 0V
- ♦5: primary Out
- ♦6: primary In