HNV025A Series Hall Current Sensor

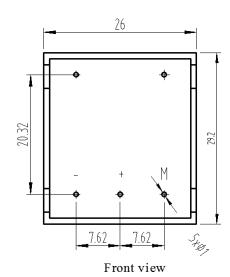
Introduction

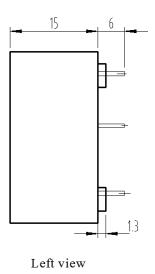
HNV025A Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

△ Electrical Parameters (Ta=25°C)

Type		,	
Parameters	Symbols	HNV025A	
Nominal measuring current	I_{PN}	±10mA	
Linear range	I_P	0~±14mA	
Turns ratio	K _N	2500:1000	
Primary coil resistance	R _C	190 Ω	
Secondary coil resistance	$R_{\rm i}$	40 Ω	
Nominal output current	I_{SN}	±25 mA±0.25 mA	
Zero offset current	Io	± 0.05 mA Type ± 0.25 mA Max	
Linear error	$\xi_{ m L}$	±0.2%	
Supply voltage	Vc	±15V ±5%	
Response time	Tr	≪40 μ S	
Temperature drift of bridge offset	I _{OT}	-10°C~+70°C	±0.2mA Type ±0.3mA Max
		-40°C~+85°C	±0.3mA Type ±0.6mA Max
Recommended load resistance	RM	100 Ω ~300 Ω	
Power dissipation current	I_{C}	(10+ I _S) mA	
Isolation voltage	V_d	2.5KV/50 or 60Hz/1min	
Operating temperature	Та	-25℃~+85℃	
Storage temperature	Ts	-40°C~+90°C	

\triangle Dimensions: (mm)







Features:

- ◆ Adopt UL94V-0-recognized insulated casing
- ◆High insulation between primary side and secondary side
- ◆High over-load capacity
- ◆Small size and space saving
- ◆Full-sealed
- ◆High reliability

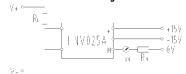
Applications:

- ◆Control feedback system
- ◆ Variable-frequency speed control system
- ◆Power source
- **♦**Robot
- ♦Over-current protection

Instructions for Use:

- ◆Connect the wire of transducer in correct way as required.
- ◆ Inputting measured voltage from input end of transducer, the in-phase current signal can be obtained from output end by sampling.

Connection and adjustment:



- **♦**+: +Vc (+15V)
- **♦-:** -Vc (-15V)
- ♦M: Output