# HNC-500LT Series Hall Current Sensor

Introduction

HNC-500LT 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℃)

Type Parameters	Symbols	HNC-100LT	HNC-300LT	HNC-400LT	HNC-500LT
Nominal measuring current	I_{PN}	100A	300A	400A	500A
Linear range	I_P	0～±150A	0～±450A	0～±600A	0～±750A
Nominal output current	I_{SN}	50mA±0.8%	150mA±0.5%	100mA±0.5%	125mA±0.5%
Coil resistance	Ri	25Ω	25Ω	60Ω	60Ω
Recommended load resistance	RM	45~250Ω	10~62Ω	8~60Ω	2~50Ω
Zero offset current	Io	±0.2mA			
Temperature drift of bridge offset	I_{OT}	Type　±0.2mA　　Max　±0.6mA			
Linear error	ξL	±0.2%			
Response time	Tr	≤1μS			
Supply voltage	Vc	±15V±5%			
Isolation voltage	V_d	2.5KV/50 or 60H$_Z$/1min			
Power dissipation current	I_C	（18+Is）mA			
Frequency bandwidth	f	DC~100KH$_Z$(-3dB)			
Operating temperature	Ta	-25℃~+85℃			
Storage temperature	Ts	-40℃~+90℃			

△Dimension：（mm）
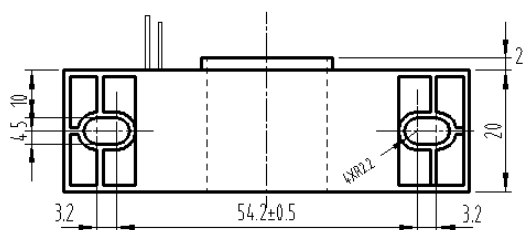
Bottom view
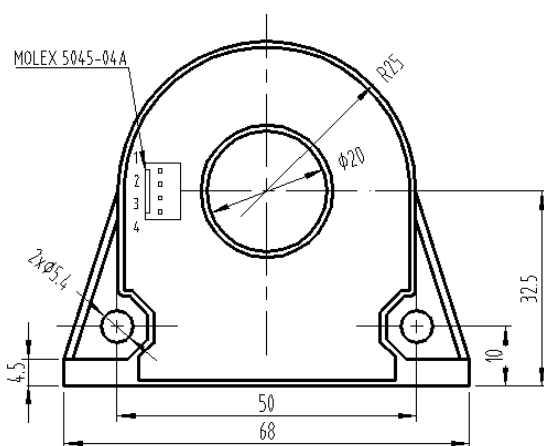
Front view

Features：

◆Use close-loop current transducer based on Hall effect

◆ Adopt UL94V-0-recognized insulated casing

◆Flexible mounting

◆Low power consumption

◆Punching way has no insertion loss

◆High immunity against external disturbance

Applications：

◆ AC variable-frequency speed control system and servo motor

◆Uninterruptible power supply (UPS)

◆Switched-mode power supply

◆ Power supply for electric welding machine

◆Communication power 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.

Connection and adjustment：

◆1：+Vc（+15V）

◆2：-Vc（-15V）

◆3：Output

◆4：NC

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