HDC-1000LTD Series Hall Current Sensor

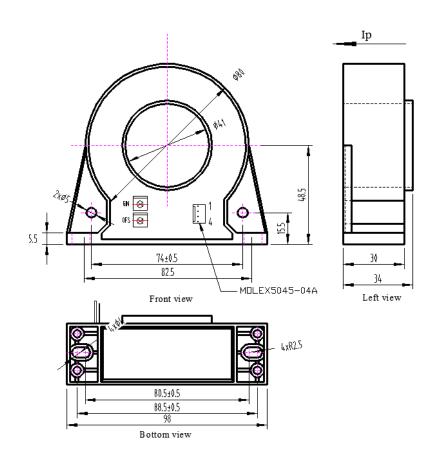
Introduction

HDC-1000LTD 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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Туре		HDC 2001 FD	HDC 5001 ED	HDC 0001 TD	LIDG 1000LED
Parameters	Symbols	HDC-300LTD	HDC-500LTD	HDC-800LTD	HDC-1000LTD
Nominal measuring current	I_{PN}	300A	500A	800A	1000A
Linear range	I_P	0~±900A	0~±1500A	0~±2000A	0~±2000A
Nominal output voltage	$V_{\rm SN}$	$\pm 4V\pm 0.04V(R_L=10K\Omega)$			
Zero offset voltage	Vo	$\leq \pm 0.03 V(I_{PN}=0)$			
Temperature drift of bridge offset	V_{OT}	≤±1mV/°C			
Linear error	ξL	±1%			
Response time	Tr	≤5 μ S			
Supply voltage	Vc	±15V±5%			
Isolation voltage	V_d	3.0KV/50 or 60Hz/1min			
Power dissipation current	I_{C}	±20mA			
Frequency bandwidth	f	DC~50KH _Z (-3dB)			
Operating temperature	Та	-25°C∼+85°C			
Storage temperature	Ts	-40℃~+90℃			

△ 外型尺寸: (mm)





Features:

- ◆ Use open-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
- ◆Uninterruptible power supply (UPS)
- ◆Battery 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 voltage 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: 0V
- ♦OFS: Offset
- ◆GIN: Gain