HDC-1000HTA Series Hall Current Sensor

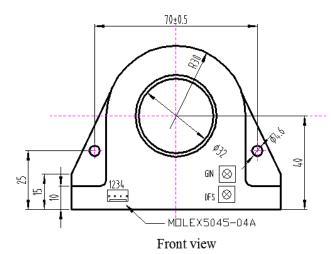
Introduction

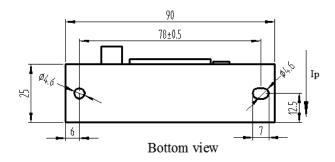
HDC-1000HTA Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

\triangle Electrical Parameters (Ta=25°C)

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Туре		HDC-100HTA	НОС-200НТА	HDC-500HTA	HDC-1000HTA
Parameters	Symbols		11DC-200111A	11DC-300111A	TIDC-1000ITTA
Nominal measuring current	I_{PN}	100A	200A	500A	1000A
Linear range	I_P	0~±300A	0~±600A	0~±1500A	0~±1800A
Nominal output voltage	$\mathbf{V}_{\mathtt{SN}}$	±4V±0.04V			
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 60H _Z /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℃			

\triangle Dimensions: (mm)







Features:

- ◆ Use open-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆Small size and space saving
- ◆Low power consumption
- ◆ 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

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.

Connection and adjustment:

- **♦**1: +Vc (+15V)
- **♦**2: -Vc (-15V)
- ♦3: Output
- ♦4: 0V
- ♦OFS: Offset
- ♦GIN: Gain