

HDC-1000F Series Hall Current Sensor

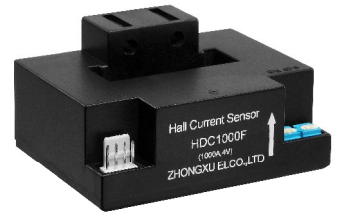
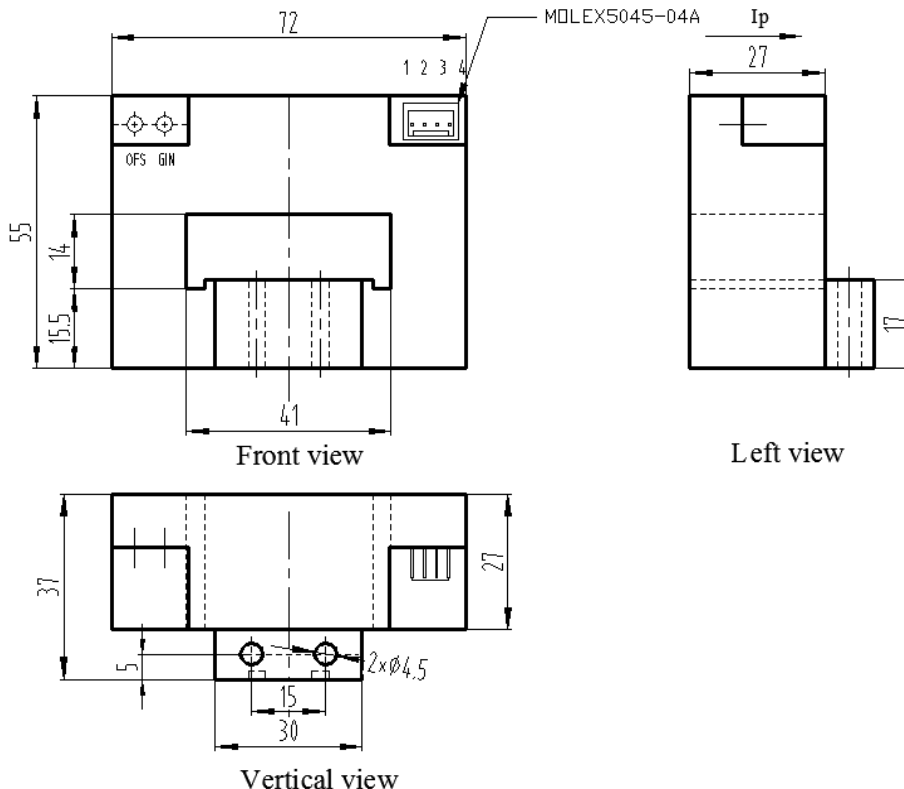
Introduction

HDC-1000F 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		HDC-200F	HDC-400F	HDC-600F	HDC-800F	HDC-1000F
Parameters	Symbols					
Nominal measuring current	I_{PN}	200A	400A	600A	800A	1000A
Linear range	I_P	0~±300A	0~±600A	0~±900A	0~±1200A	0~±1500A
Nominal output voltage	V_{SN}	±4V±0.04V(R _L =10KΩ)				
Zero offset voltage	V_O	≤0.025V(I _{PN} =0)				
Temperature drift of bridge offset	V_{OT}	≤±1mV/℃				
Linear error	ξ_L	±1%				
Response time	T_r	≤7μS				
Supply voltage	V_C	±15V±5%				
Isolation voltage	V_d	2.5KV/50 or 60Hz/1min				
Power dissipation current	I_C	±30mA				
Frequency bandwidth	f	DC~50KHz(-3dB)				
Operating temperature	T_a	-25℃~+85℃				
Storage temperature	T_s	-40℃~+90℃				

△ Dimensions: (mm)



Features:

- ◆ Use open-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆ Small sized 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.
- ◆ The arrow indicates positive current direction.

Connection and adjustment:

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