HDC-600N Series Hall Current Sensor

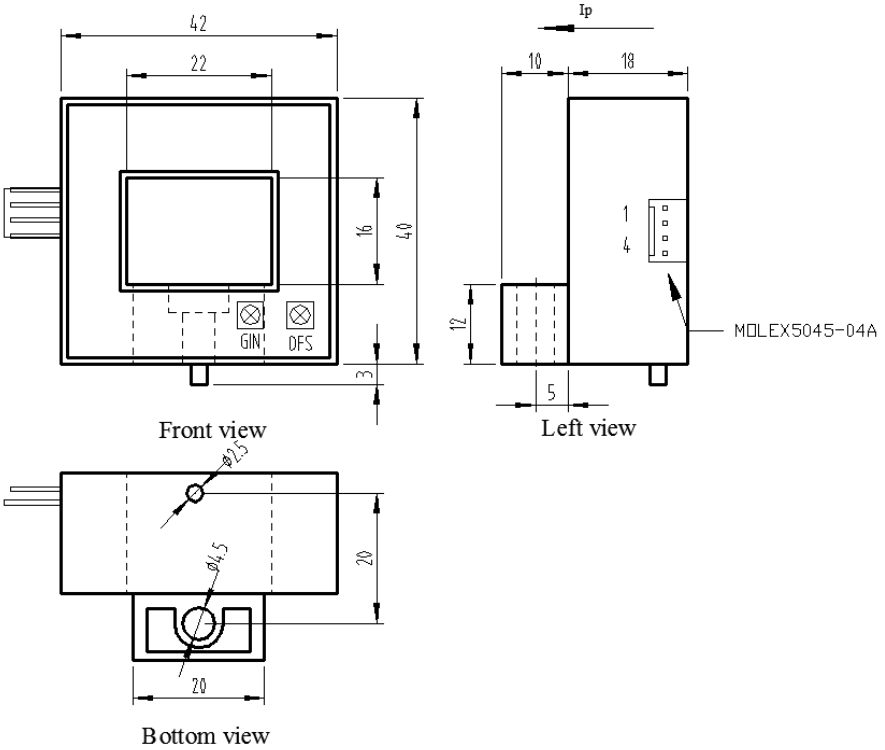
Introduction

HDC-600N 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-100N	HDC-300N	HDC-400N	HDC-500N	HDC-600N
Parameters	Symbols					
Nominal measuring current	I_{PN}	100A	300A	400A	500A	600A
Linear range	I_P	0~±300A	0~±800A	0~±800A	0~±1000A	0~±1000A
Nominal output voltage	V_{SN}	±4V±0.04V(R_L=10KΩ)				
Zero offset voltage	Vo	≤±0.03V(I_{PN}=0)				
Temperature drift of bridge offset	V_{OT}	≤±1mV/℃				
Linear error	ξ_L	±1%				
Response time	Tr	≤5μS				
Supply voltage	Vc	±15V±5%				
Isolation voltage	V_d	2.5KV/50 or 60HZ/1min				
Power dissipation current	I_C	±20mA				
Frequency bandwidth	f	DC~50KHZ(-3dB)				
Operating temperature	Ta	-25℃~+85℃				
Storage temperature	Ts	-40℃~+90℃				

△Dimensions：(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

Applications：

◆ AC variable-frequency speed control system

◆Uninterruptible power supply (UPS)

◆Chopper

◆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