

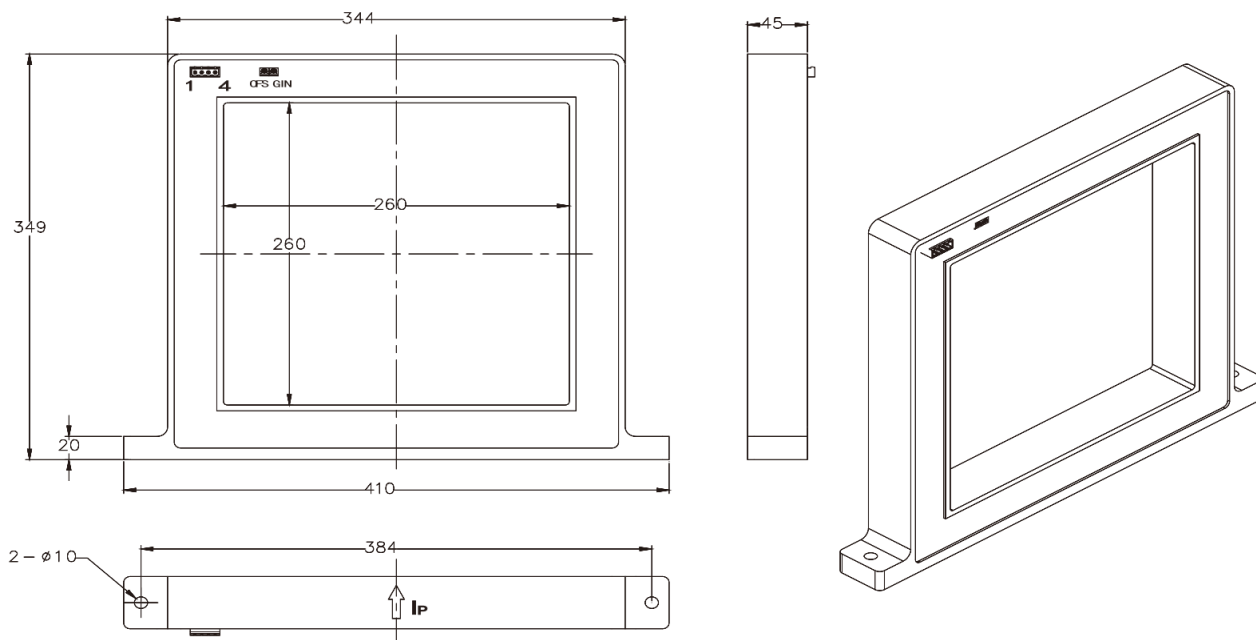
FS60000HE 系列霍尔电流传感器

应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。

Open loop current sensor based on the principle of Hall-effect It can be used for measuring AC,DC,pulsed and mixed current.

电参数/Electrical characteristics							
	型号 Type	FS5000HE	FS10000HE	FS20000HE	FS40000HE	FS60000HE	
I_{PN}	原边额定输入电流 Primary nominal input current	5000	10000	20000	40000	60000	A
I_P	原边电流测量范围 Measuring range of primary current	0~±6000	0~±12000	0~±24000	0~±44000	0~±66000	A
V_{OUT}	副边额定输出电压 Nominal output voltage	4±1%					V
V_C	电源电压 Supply voltage	±15(±5%)					V
I_C	电流消耗 Current consumption	$V_C=±15V$ <60					mA
V_d	绝缘电压 Insulation voltage	在原边与副边电路之间6kV有效值/50Hz/1分钟 6kV RMS /50Hz/1 min between primary and secondary side circuits					
ε_L	线性度 Linearity	<1					%FS
V_0	零点失调电压 Offset voltage	$T_A=25^{\circ}C$ <±25					mV
V_{OM}	磁失调电压 Residual voltage	$I_{PN} \rightarrow 0$ <±20					mV
V_{OT}	失调电压温漂 Thermal drift of V_0	$I_P=0$ $T_A=-25\sim+85^{\circ}C$ <±1					mV/°C
T_r	响应时间 Response time	<10					μs
f	频带宽度(-3dB) Frequency Bandwidth (-3dB)	DC~3					kHz
T_A	工作环境温度 Ambient operating temperature	-40~+85					°C
T_S	贮存环境温度 Ambient storage temperature	-40~+100					°C
	标准 Standard	GI/FS-0105					

外形尺寸(mm)/Dimensions of drawing(mm)



引脚输出: 1, +15V 2, -15V 3, Vout 4, 0V(电源地) OFS, 零点调节 GIN, 幅度调节
Elucidation: 1: +15V 2: -15V 3: Vout 4: 0V(GND) OFS: Zero adjustment GIN: Gain adjustment

使用说明/Remarks

- 错误的接线可能导致传感器损坏。传感器通电后，当被测电流从传感器箭头方向穿过，即可在输出端测得同相电压值。
Incorrect wiring may cause damage to the sensor. After the sensor is powered on, when the measured current passes through the arrow direction of the sensor, the in-phase voltage value can be measured at the output end.
- 传感器的输出幅度可根据用户需求进行适当的调节。
The output amplitude of the sensor can be adjusted according to the user's needs.
- 可按用户需求定制不同额定输入电流和输出电压的传感器。
Sensors with different rated input current and output voltage can be customized according to user requirements.