

FS6000EK4 系列霍尔可拆卸电流传感器

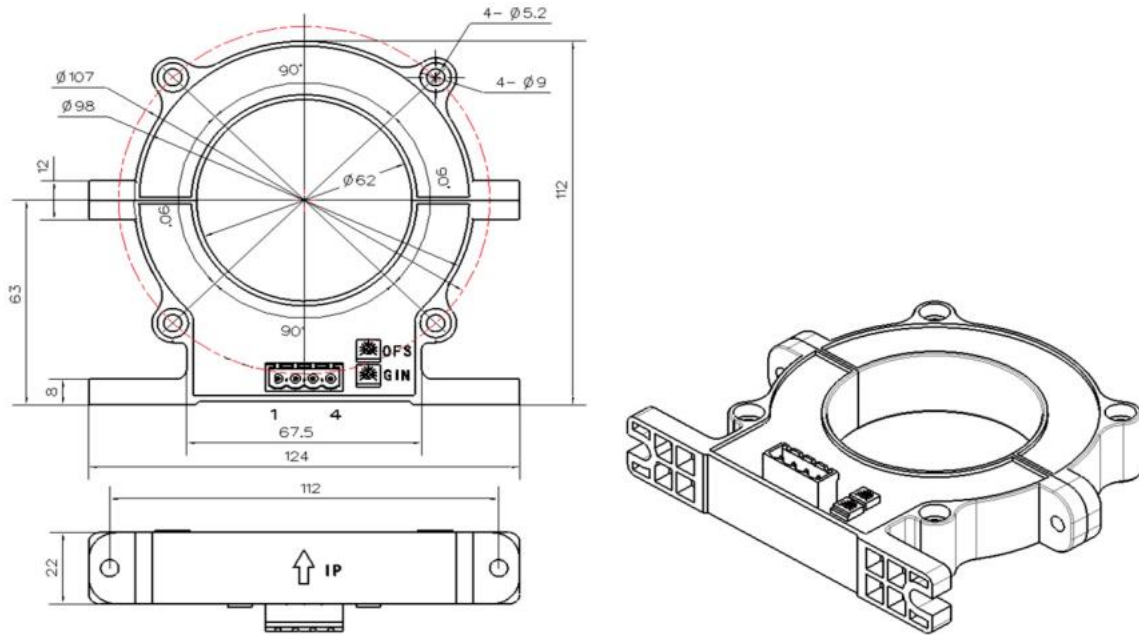
应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。



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	FS300EK4	FS600EK4	FS1000EK4	FS2000EK4	FS4000EK4	FS6000EK4	
I_{pN}	原边额定输入电流 Primary nominal input current	300	600	1000	2000	4000	6000	A
I_p	原边电流测量范围 Measuring range of primary current	0~±600	0~±1200	0~±2000	0~±3000	0~±5000	0~±6500	A
V_{out}	副边额定输出电压 Nominal output voltage	4±1%或5±1%						V
V_o	电源电压 Supply voltage	±12~±15(±5%)						V
I_o	电流消耗 Current consumption	$V_c=±15V$ <25						mA
V_a	绝缘电压 Insulation voltage	在原边与副边电路之间5kV有效值/50Hz/1分钟						
E_L	线性度 Linearity	<1						%FS
V_o	零点失调电压 Offset voltage	$T_A=25^{\circ}C$ <±25						mV
V_{ow}	磁失调电压 Residual voltage	$I_p=0$ <±25						mV
V_{or}	失调电压温漂 Thermal drift of V_O	$I_p=0$ $T_A=-25\sim+85^{\circ}C$ <±1						mV/°C
T_r	响应时间 Response time	≤7						μs
f	频带宽度(-3dB) Frequency bandwidth(-3dB)	DC~20						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
m	质量(约) Quality (approx.)	500						g
	标准 Standard	GI/FS-0105						

外形尺寸 (mm)/Dimensions of drawing(mm)



引脚输出: 1, +12V 2, -12V 3, Vout 4, 0V(电源地) OFS, 零点调节 GIN, 幅度调节
 Elucidation: 1: +12V 2: -12V 3: VOUT 4: 0V(GND) OFS: Zero adjustment GIN: Gain adjustment
 引线输出: 红, +12V 蓝, -12V 黄, Vout 黑, 0V(电源地)
 Lead output: Red, +12V Blue, -12V yellow, Vout Black, 0V(power supply)

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.