

FS80000EK6 系列可拆卸大电流传感器

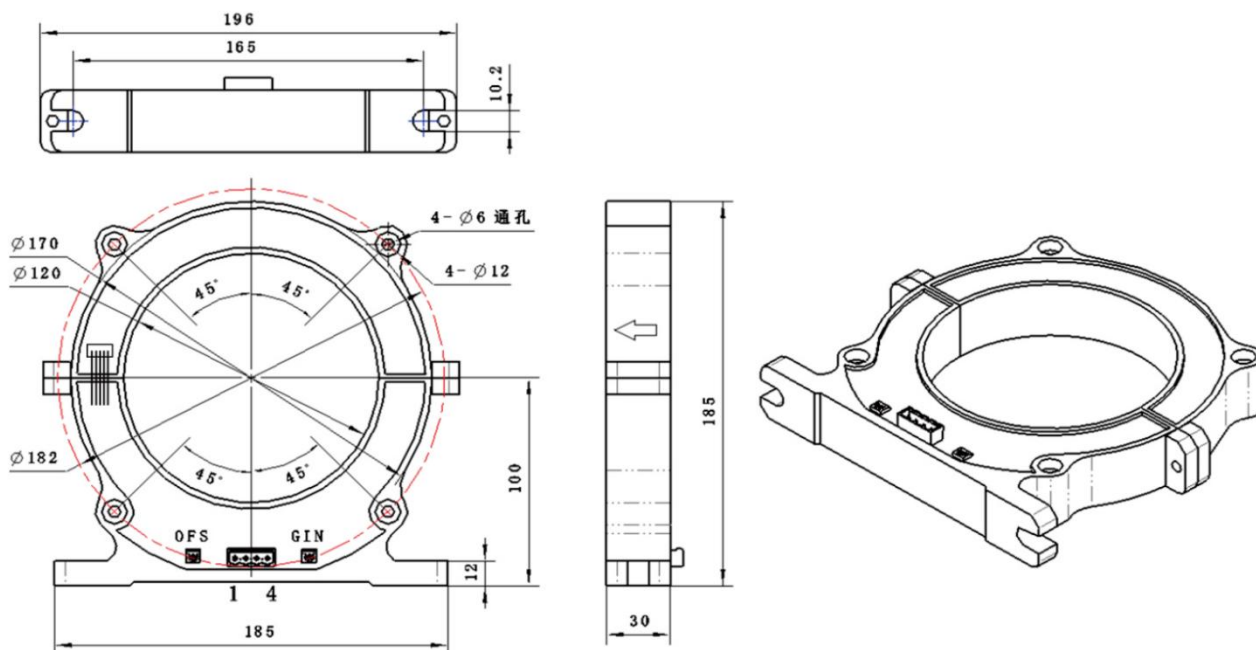
应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。

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	FS10000EK6	FS20000EK6	FS30000EK6	FS40000EK6	FS60000EK6	FS80000EK6	
I _{PN}	原边额定输入电流 Primary nominal input current	10000	20000	30000	40000	60000	80000	A
I _P	原边电流测量范围 Measuring range of primary current	0~±12000	0~±24000	0~±36000	0~±48000	0~±70000	0~±85000	A
V _{OUT}	副边额定输出电压 Nominal output voltage	4 或 5V (±1%)						V
V _C	电源电压 Supply voltage	±12~±15 (±5%)						V
I _C	电流消耗 Current consumption	<50						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℃	<25					mV
V _{OM}	磁失调电压 Residual voltage	I _{PN} →0	<20					mV
V _{OT}	失调电压温漂 Thermal drift of V ₀	I _P =0 T _A =-25~+85℃	<±1					mV/℃
Tr	响应时间 Response time	≤10						μs
f	频带宽度 (-3dB) Frequency Bandwidth (-3dB)	DC~6						kHz
T _A	工作环境温度 Ambient operating temperature	-40~+85						℃
T _S	贮存环境温度 Ambient storage temperature	-40~+100						℃
R _L	负载电阻 Load resistance	≥10K						Ω
	标准 Standard	SJ 20790-2000;JB/T 7490-2007						

外形尺寸(mm)/Dimensions of drawing(mm)



引脚说明: 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.
- 由于外壳材料为塑料, 安装时螺栓不要太用力, 以免压坏传感器。
Because the shell material is plastic, the bolt should not be too hard during installation, so as not to crush the sensor.
- 为了达到最佳的测试精度, 过流铜排或电缆应安装在传感器中心位置。
For optimal test accuracy, the overcurrent copper bar or cable should be installed in the center of the sensor.
- 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.