

A-FS2000EK2 系列可拆霍尔交流电流传感器

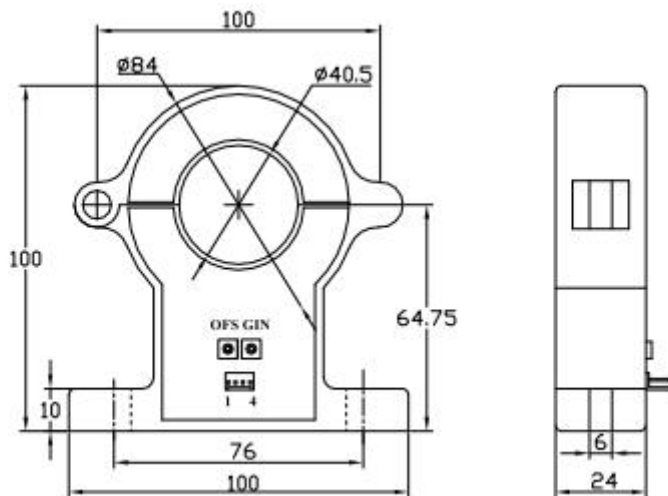
应用霍尔效应开环原理的电流传感器, 能在电隔离条件下测量交流信号电流, 转换成直流信号输出。

Open loop current sensor based on the principle of Hall-effect. It can measure the AC signal current under the condition of electrical isolation and convert it into DC signal output.



电参数/Electrical characteristics								
	型号 Type	A-FS 300EK2	A-FS 500EK2	A-FS 800EK2	A-FS 1000EK2	A-FS 1500EK2	A-FS 2000EK2	
I_{PN}	原边额定输入电流 Primary nominal input current	300 (AC)	500 (AC)	800 (AC)	1000 (AC)	1500 (AC)	2000 (AC)	A
I_P	原边电流测量范围 Measuring range of primary current	0~600 (AC)	0~1000 (AC)	0~1600 (AC)	0~2000 (AC)	0~3000 (AC)	0~3000 (AC)	A
V_{OUT}	副边额定输出电压 Nominal output voltage	$4 \pm 1\%$ (DC)						V
V_C	电源电压 Supply voltage	$\pm 12 \sim \pm 15$ ($\pm 5\%$)						V
I_C	电流消耗 Current consumption	$V_C = \pm 15V$ <25						mA
V_d	绝缘电压 Insulation voltage	在原边与副边电路之间 2.5KV 有效值/50Hz/1 分钟						
ϵ_L	线性度 Linearity	< ± 1						%FS
V_0	零点失调电压 Offset voltage	$T_A = 25^\circ C$ < ± 20						mV
V_{OT}	失调电压漂移 Thermal drift of V_0	$I_P=0$ $T_A = -25 \sim +85^\circ C$ < ± 1						mV/ $^\circ C$
T_r	响应时间 Response time	≤ 20						ms
f	响应频率 Response frequency	20Hz~20kHz						
T_A	工作环境温度 Ambient operating temperature	$-25 \sim +85$						$^\circ C$
T_S	贮存环境温度 Ambient storage temperature	$-40 \sim +100$						$^\circ C$
T_L	负载电阻 Load resistance	$\geq 10K$						Ω
	标准 Standard	GI/FS-0105						

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

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.