



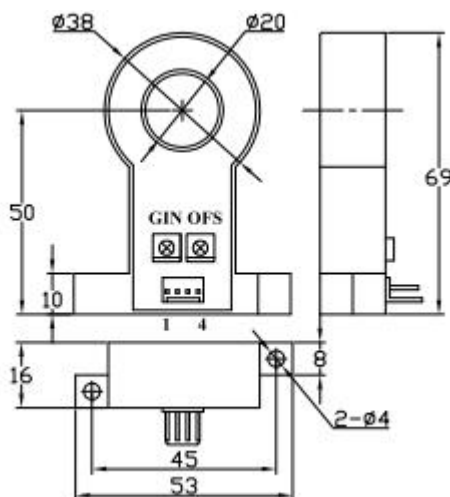
A-FS300E 系列霍尔交流电流传感器

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-FS030E	A-FS050E	A-FS100E	A-FS150E	A-FS200E	A-FS300E	
I_{PN}	原边额定输入电流 Primary nominal input current	30 (AC)	50 (AC)	100 (AC)	150 (AC)	200 (AC)	300 (AC)	A
I_P	原边电流测量范围 Measuring range of primary current	0~60 (AC)	0~100 (AC)	0~200 (AC)	0~300 (AC)	0~400 (AC)	0~600 (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	$V_C = \pm 15V$ < 20						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	$< \pm 1$						%FS
V_0	零点失调电压 Offset voltage	$T_A = 25^\circ C$ $< \pm 20$						mV
V_{OT}	失调电压漂移 Thermal drift of V0	$IP=0$ $T_A = -25 \sim +85^\circ C$ $< \pm 1$						mV/ °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	$-25 \sim +85$						°C
T_S	贮存环境温度 Ambient storage temperature	$-40 \sim +100$						°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

1. 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.
2. 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.
3. 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.