

FS500E2 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。

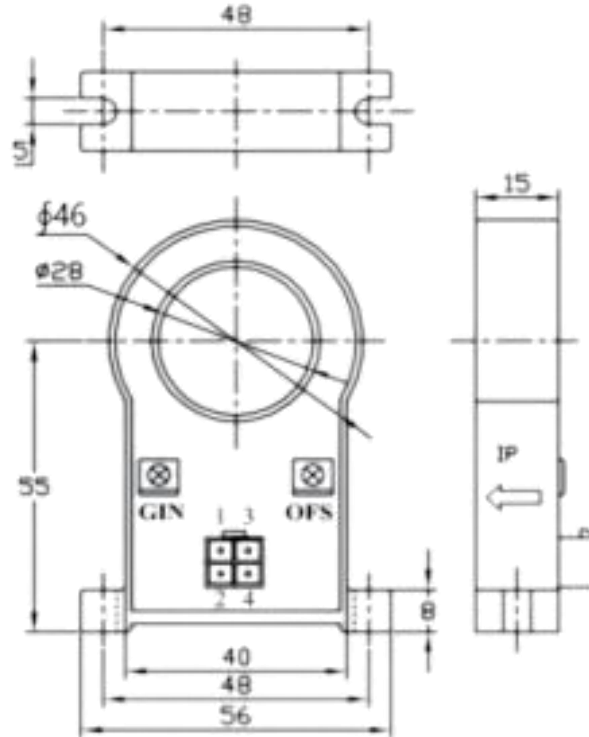
Open loop current sensor based on the principle of Hall-effect It can be used for measuring AC,DC,pulsed and mixed current.



电参数/Electrical characteristics								
	型号 Type	FS100E2	FS200E2	FS300E2	FS400E2	FS500E2	FS600E2	
I_{PN}	原边额定输入电流 Primary nominal input current	100	200	300	400	500	600	A
I_p	原边电流测量范围 Measuring range of primary current	0~±200	0~±400	0~+600	0~+800	0~+1000	0~±1000	A
V_{SN}	副边额定输出电压 Secondary nominal output voltage	4±1%						V
V_c	电源电压 Supply voltage	±12~±15(±5%)						V
I_c	电流消耗 Current consumption	$V_c=±15V$	<20					mA
V_d	绝缘电压 Insulation voltage	在原边与副边电路之间 2.5 KV 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	$T_A=25^{\circ}C$	<±10					mV
V_{or}	磁失调电压 Residual voltage	$I_{PN} \rightarrow 0$	<±10					mV
V_{or}	失调电压漂移 Thermal drift of V0	$I_p=0$ $T_A=-25\sim+85^{\circ}C$	<±0.5					mV/°C
T_r	响应时间 Response time	≤5						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~+125						°C
T_s	贮存环境温度 Ambient storage temperature	-40~+150						°C
R_L	负载电阻 Load resistance	≥10K						Ω

标准 Standard	GI/FS-0105
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外形尺寸 (mm) /Dimensions of drawing(mm)



引脚说明: 1,+15V/+12V 2,-15V-12V 3,Vout 4,GND OFS零点调节 GIN 幅度调节

Elucidation: 1,+15V/+12V 2,-15V-12V 3,Vout 4,GND OFS zero adjustment GIN amplitude 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.