

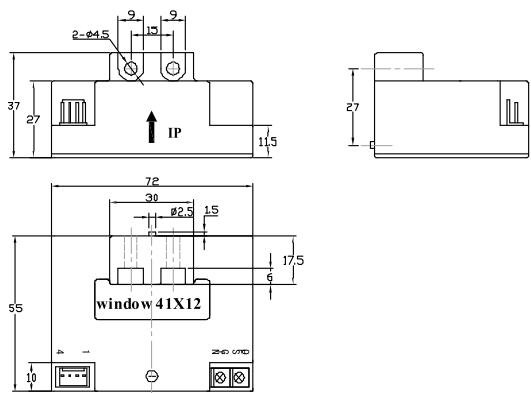


应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

电参数/Electrical characteristics

	型号 Type	FS100F	FS200F	FS400F	FS600F	FS800F	FS1000F		
I_{PN}	原边额定输入电流 Primary nominal input current	100	200	400	600	800	1000	A	
I_P	原边电流测量范围 Measuring range of primary current	0~±200	0~±400	0~±800	0~±1200	0~±1600	0~±2000	A	
V_{OUT}	副边额定输出电压 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	$V_C=±15V$						<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	$T_A=25^\circ C$						<±25	mV
V_{OM}	磁失调电压 Residual voltage	$I_{PN} \rightarrow 0$						<±25	mV
V_{OT}	失调电压温漂 Thermal drift of V_0	$I_P=0 T_A=-25 \sim +85^\circ C$						<±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							-25 ~ +85	°C
T_S	贮存环境温度 Ambient storage temperature							-40 ~ +100	°C
R_L	负载电阻 Load resistance							≥10K	Ω
	标准 Standard							GI/FS-0105	

外形尺寸 (mm) /Dimensions of drawing (mm)



引脚输出： 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 (Red:+15V Blue:-15V Yellow:VOUT Black:0V)

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。
 - 传感器的输出幅度可根据用户需求进行适当的调节。
 - 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。
- Incorrect connection may lead to the damage of the sensor.
·VOUT is positive when the IP flows in the direction of the arrow.