

FS1500CFT 系列霍尔电流传感器



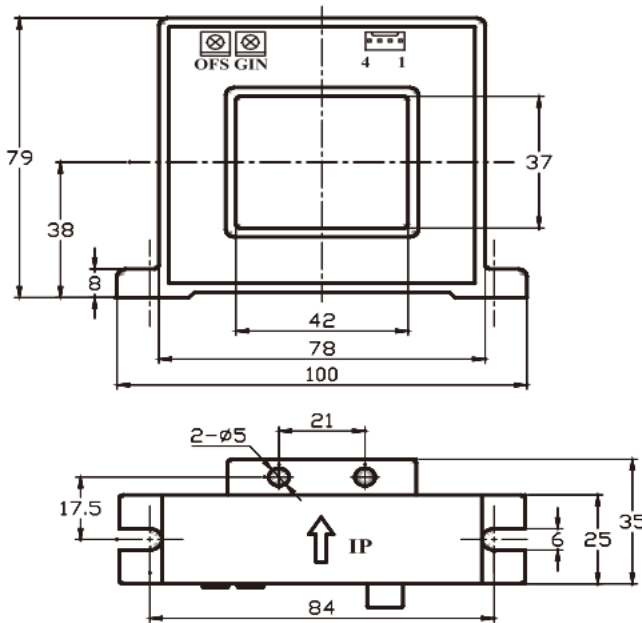
应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。

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

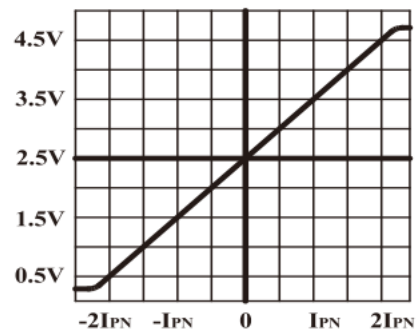
电参数Electrical characteristics								
	型号 Type	FS200CFT	FS400CFT	FS600CFT	FS800CFT	FS1500CFT	FS2000CFT	
I_{PN}	原边额定输入电流 Primary nominal input current	200	400	600	800	1500	2000	A
P	原边电流测量范围 Measuring range of primary current	0~±400	0~±800	0~±1200	0~±1600	0~±2500	0~±2500	A
V_{out}	副边额定输出电压 Nominal output voltage	1V/2V(±1%)						V
V_c	电源电压 Supply voltage	+5(±5%)						V
I_c	电流消耗 Current consumption	<20						mA
V_a	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						
E_L	线性度 Linearity	<1						%FS
V_o	零点失调电压 Offset voltage	TA=25°C			2.5±1%			V
V_{ow}	磁失调电压 Residual voltage	$I_p \rightarrow 0$			<±20			mV
V_{or}	失调电压温漂 Thermal drift of V0	$I_p=0$ TA=-25~+85°C			<±0.5			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	-40~+85						°C
T_s	贮存环境温度 Ambient storage	-40~+125						°C

	temperature		
R _L	负载电阻 Load resistance	≥10K	Ω
m	质量(约) Quality (approx.)	350	g
	标准 Standard	GI/FS-0105	

外形尺寸 (mm)/Dimensions of drawing(mm)



输入电流—输出电压



引脚输出: 1,+5V 2,0V(电源地) 3,Vout 4,0V(电源地) 0FS,零点调节 GIN,幅度调节

Pin output: 1,+5V 2,0V(power) 3,Vout 4,0V(power) 0FS, zero adjustment GIN, amplitude adjustment

引线输出: 红, +5V 黄, Vout 黑, 0V(电源地)

Lead output: Red, +5V Yellow, Vout Black, 0V(power supply)

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.