

FS1000FT 系列霍尔电流传感器



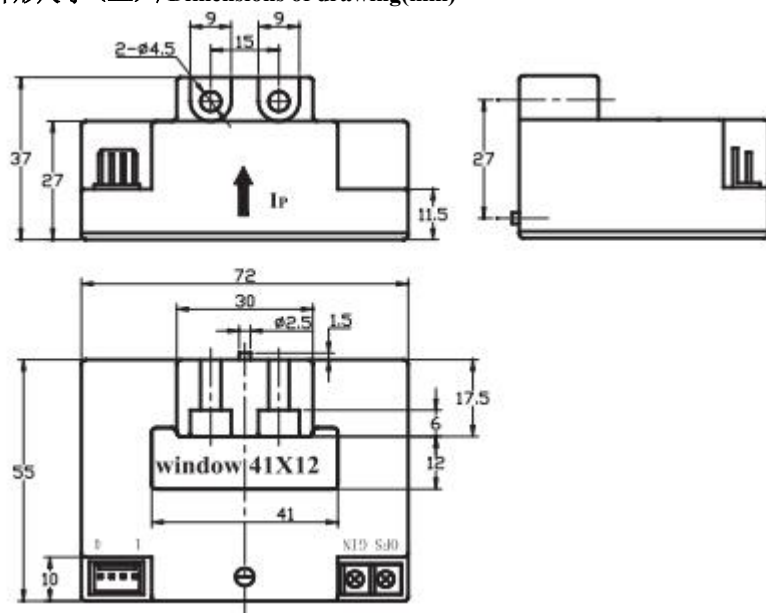
应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。

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

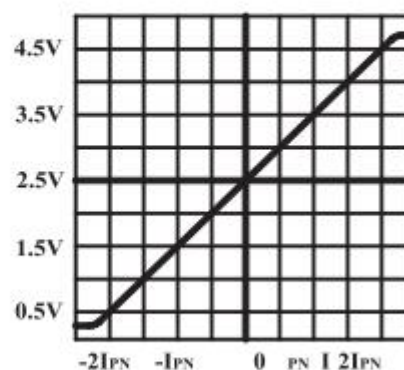
电参数/Electrical characteristics							
	型号 Type	FS100FT	FS200FT	FS400FI	FS500FT	FS2000FT	
I _{PN}	原边额定输入电流 Primary nominal input current	100	200	400	500	2000	A
I _p	原边电流测量范围 Measuring range of primary current	0~±200	0~±400	0~±800	0~±1000	0~±2500	A
V _{out}	副边额定输出电压 Secondary nominal output voltage	1±1%/(2±1%)					V
V _c	电源电压 Supply voltage	+5(±5%)					V
I _c	电流消耗 Current consumption	<20					mA
V _d	绝缘电压 Insulation voltage	在原边与副边电路之间 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	T=25℃	2.5±1%				V
V _{ow}	磁失调电压 Residual voltage	→0	<±10				mV
V _{or}	失调电压漂移 Thermal drift of V0	I _{PN} =0 T=-25~+85℃	<±0.5				mV/℃
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~+125					℃
T _s	贮存环境温度 Ambient storage	-40~+125					℃

	temperature		
R	负载电阻 Load resistance	$\geq 10K$	Ω
m	质量 (约) Quality (approx)	224	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) OFS, 零点调节 GIN, 幅度调节

引线输出: 红, +5V 黄, Vou 黑, 0V (电源地)

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

Lead output: Red, +5V Yellow, Vou Black, 0V(power source)

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.