



THE DATASHEET OF FS-KA



FS5000KA 系列霍尔可拆卸电流传感器

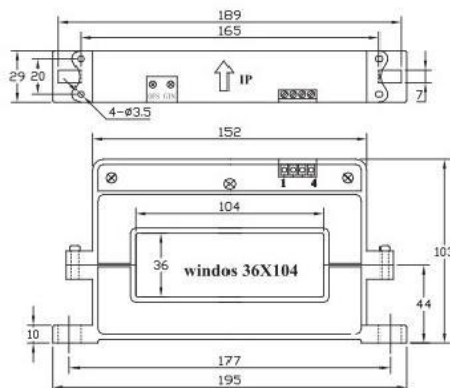
应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。

The current sensor using the Hall effect open-loop principle can measure DC, AC, pulse and various irregular waveforms of current under the condition of electrical isolation.



电参数/Electrical characteristics							
	型号 Type	FS600KA	FS1000KA	FS2000KA	FS3000KA	FS5000KA	
I_{PN}	原边额定输入电流 Rated input current on primary side	600	1000	2000	3000	5000	A
I_P	原边电流测量范围 Measuring range of primary current	0~±1200	0~±2000	0~±4000	0~±6000	0~±7500	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_{O}	零点失调电压 Offset voltage	$T_A=25^{\circ}C$	<±25				mV
V_{OM}	磁失调电压 Residual voltage	$IPN \rightarrow 0$	<+30				mV
V_{OT}	失调电压温漂 Thermal drift of V_0	$IPN=0$	$T_A=-25 \sim +85^{\circ}C$	<±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)



端子输出: 1,+15V2,-15V3,Vout 4,0V(电源地)OFS,零点调节GIN,幅度调节引线输出: 红,+15V蓝,-15V黄,Vout黑,0V(电源地)
Elucidation:1:+15V2:-15V3:VOUT4:0V(GND)OFS:Zeroadjustment GIN:Gain adjustment(Red:+15V Blue:-15V Yellow:VOUT Black:0V)

使用说明/Instructions

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.

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