

FS3000KHD 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。

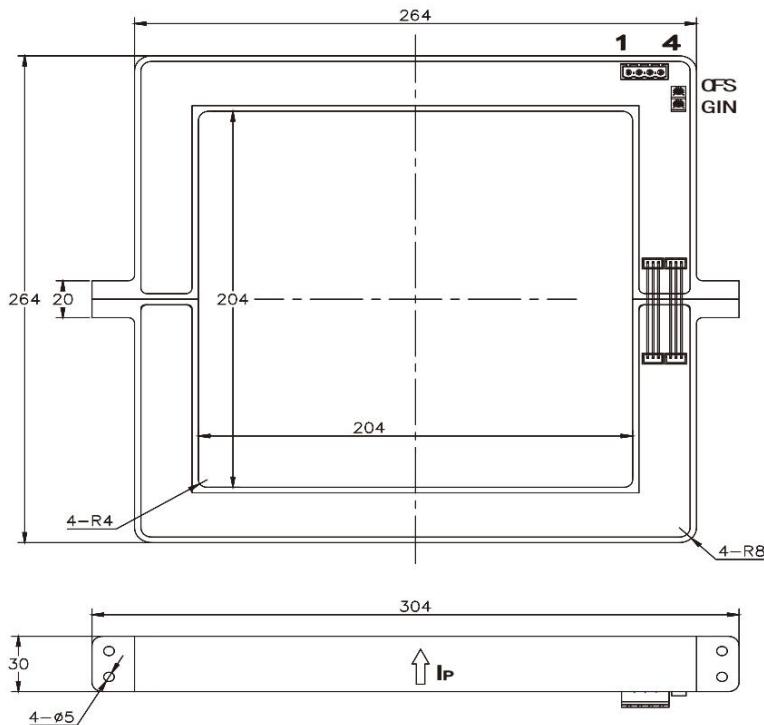
Open loop current sensor based on the principle of Hall-effect It can be used for measuring AC,DC, pulsed and mixed current.



电参数/Electrical characteristics

	型号 Type	FS5000KHD	FS10000KHD	FS15000KHD	FS20000KHD	FS30000KHD	
I _{PN}	原边额定输入电流 Primary nominal input current	5000	10000	15000	20000	30000	A
I _P	原边电流测量范围 Measuring range of primary current	0~±6000	0~±12000	0~±18000	0~±24000	0~±32000	A
V _{OUT}	副边额定输出电压 Nominal output voltage			5±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		<60			mA
V _d	绝缘电压 Insulation voltage			在原边与副边电路之间6kV有效值/50Hz/1分钟 6kV RMS /50Hz/1 min between primary and secondary side circuits			
ε _L	线性度 Linearity			<1			%FS
V ₀	零点失调电压 Offset voltage	T _A =25°C		<±25			mV
V _{OM}	磁失调电压 Residual voltage	I _{PN} →0		<±20			mV
V _{OT}	失调电压温漂 Thermal drift of V ₀	I _P =0 T _A =-25~+85°C		<±1			mV/°C
Tr	响应时间 Response time			<10			μs
f	频带宽度(-3dB) Frequency Bandwidth (-3dB)			DC~3			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 temperature			-40~+100			°C
m	质量(约) Mass (approx.)			2960			g
	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

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.
- 引出接线使用屏蔽护套线时，屏蔽护套线两端地线与屏蔽层相连接，以防止电磁干扰。
When the shielded sheath cable is used in the lead-out cable, the ground wire at both ends of the shielded sheath cable is connected to the shielded layer to prevent electromagnetic interference.