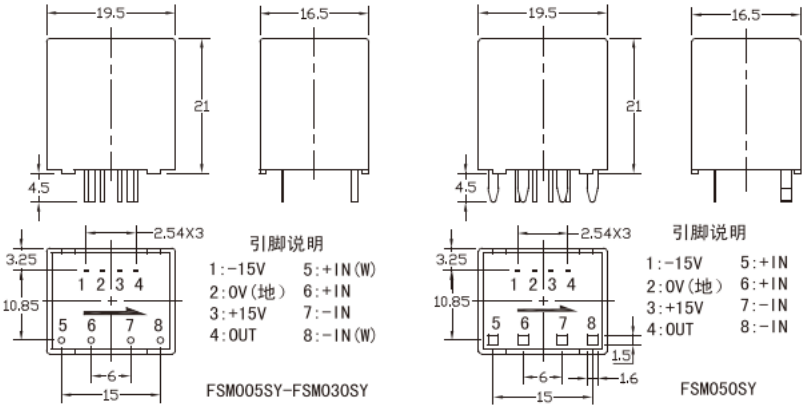
FSM050SY系列霍尔电流传感器

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

电 参 数 /Electrical characteristics

	型号 Type	FSM005SY	FSM010SY	FSM015SY	FSM020SY	FSM025SY	FSM030SY	FSM050SY	
I_{PN}	原边额定输入电流 Primary nominal input current	5	10	15	20	25	30	50	A
Ip	原边电流测量范围 Measuring range of primary current	0~±10	0~±20	0~±30	0~±40	0~±50	0~±60	0~±100	A
	输入引脚尺寸 Dimension of input terminal	D0.8	Φ1.0	Φ1.0	Φ1.4	Φ1.4	Φ1.6	2X1.6X1.5	mm
K_N	匝数比 Conversion ratio	3:1500	2:2000	1:1500	1:2000	1:2500	1:3000	1:3125	
R_M	内接测量电阻 Internal measuring resistance	400	400	400	400	400	400	250	Ω
V_{SN}	副边额定输出电压 Secondary nominal output voltage	4±0.5%							V
Vo	电源电压 Supply voltage	±15(±5%)							V
Io	电流消耗 Current consumption	<25							mA
Va	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	<0.1							%FS
X	精度 Accuracy	TA=25℃	±0.5						%
Vo	零点失调电压 Zero offset current	±25							mV
V_{OT}	失调电压温漂 Thermal drift of I0	IpN=0 TA=-25~+85℃	<±0.5						mV/C
Tr	响应时间 Response time	<1							us
f	频带宽度(-3dB) Frequency bandwidth(-3dB)	DC~200							kHz
TA	工作环境温度 Ambient operating temperature	-25~+85							℃
Ts	贮存环境温度 Ambient storage temperature	-40~+100							℃
	标准 Standard	GI/FS-0105							

外 形 尺 寸(mm)/Dimensions of drawing (mm)



使 用 说 明 / Remarks

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. 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.