

FSM050SYA 系列霍尔电流传感器



应用霍尔效应闭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	FSM005SYA	FSM010SYA	FSM015SYA	FSM020SYA	FSM025SYA	FSM030SYA	FSM050SYA	
I_{PN}	原边额定输入电流 Primary nominal input current	5	10	15	20	25	30	50	A
I_p	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 Input Pin Size	Φ0.8	Φ0.8	Φ1.0	Φ1.4	Φ1.4	Φ1.4	2X1.6X1.5	mm
K_N	匝数比 turns ratio	4: 1000	3: 1500	2: 1500	1: 1000	1: 1250	1: 1500	1: 2500	
R_M	内接测量电阻 Internal Measuring Resistance	200-400±0.1%							Ω
V_{SN}	副边额定输出电流 Rated output current on the secondary side	20±0.5%							mA
V_C	电源电压 Supply voltage	±15(±5%)							V
I_C	静态功耗 Static power consumption	<10							mA
V_d	绝缘电压 Insulation voltage	在原边与副边电路之间5 KV有效值/50Hz/1分钟							
ϵ	线性度 Linearity	<0.1							%FS
X	Di/dt 跟随精度 Di/dt Following Accuracy	>50							A/us
V_0	零点电失调电压 Offset voltage	±0.2							mV
V_{OT}	失调电压温漂 Thermal drift of V0	IPN=0 TA = -40~+85°C		<±0.00 5				mA/°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	-40~+85							°C

T _s	贮存环境温度 Ambient storage temperature	-40~+125	°C
	标准 Standard	GI/FS-0105	

外形尺寸(mm)/Dimensions of drawing(mm)

