

FSM050LX 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。

Closed 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	FSM005LX	FSM010LX	FSM015LX	FSM020LX	FSM025LX	FSM030LX	FSM050LX	FSM075LX
I _{IN}	原边额定输入电流 Primary nominal input current	5A	10A	15A	20A	25A	30A	50A	75A
I _P	原边电流测量范围 Measuring range of primary current	0~±16A	0~±32A	0~±48A	0~±64A	0~±80A	0~±96A	0~±150A	0~±150A
	输入引脚尺寸 mm Input pin size mm	Φ0.8	Φ0.8	Φ1.0	Φ1.4	Φ1.4	Φ1.6	2X1.6X1.5	2X1.6X1.5
K _N	匝数比 Conversion ratio	3:1500	2:2000	1:1500	1:2000	1:2500	1:3000	1:2500	1:3750
R	内接测量电阻 Ω Built-in measuring resistance Ω	400±0.1%	400±0.1%	400±0.1%	400±0.1%	400±0.1%	400±0.1%	200±0.1%	200±0.1%
V _{OUT}	副边额定输出电压 Nominal output voltage	4±0.5%							V
V _C	电源电压 Supply voltage	±15(±5%)							V
I _C	静态功耗 Static power consumption	<15							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 5 KV RMS /50Hz/1 min between primary and secondary side circuits							
ε _L	线性度 Linearity	<0.1							%FS
X	di/dt 跟随精度 di/dt follows accuracy	>50							A/μs
V ₀	零点电失调电压 Zero offset voltage	±20							mV
V _{OT}	失调电压温漂 Thermal drift of V ₀	I _{IN} =0	T _A =-40~+85℃	<±0.5				mV/℃	
Tr	响应时间 Response time	<1							us
T _A	工作环境温度 Ambient operating temperature	-40~+85							℃
T _S	贮存环境温度 Ambient storage temperature	-40~+125							℃
	标准 Standard	GI/FS-0105							

外形尺寸及引脚说明/Dimensions of drawing Pin elucidation

