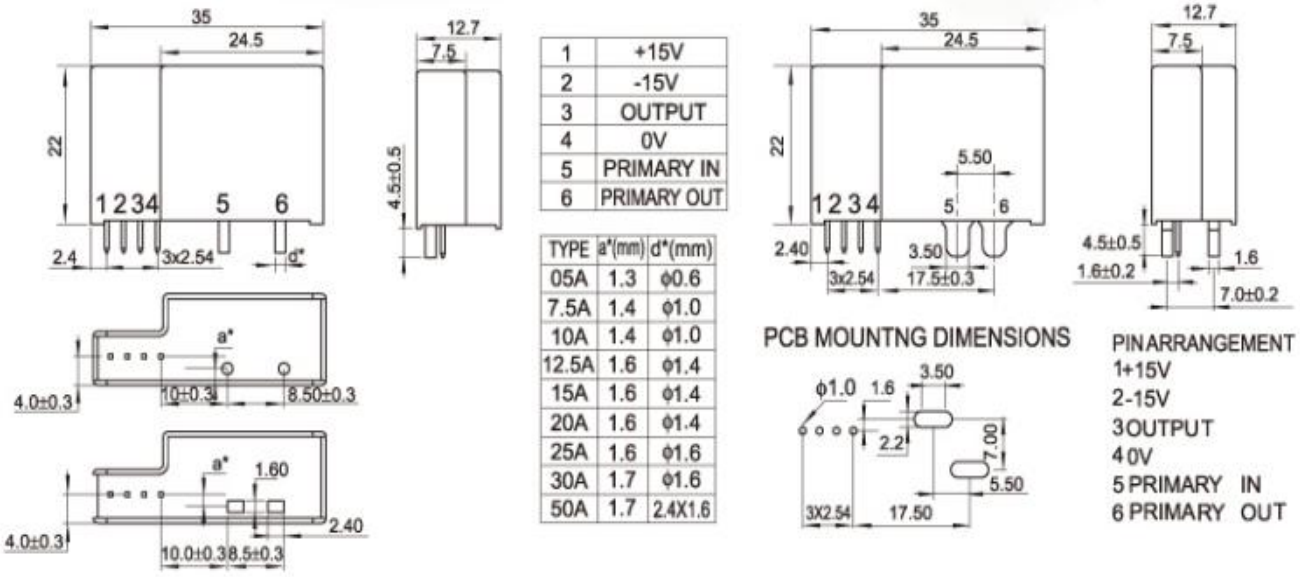
FSM050LX 系列霍尔电流传感器

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 Tpye	FSM005LX	FSM010LX	FSM015LX	FSM020LX	FSM025LX	FSM030LX	FSM050LX	FSM075LX
I_{PN}	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
Ic	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_{PN}=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



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.