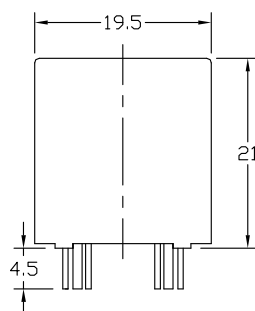
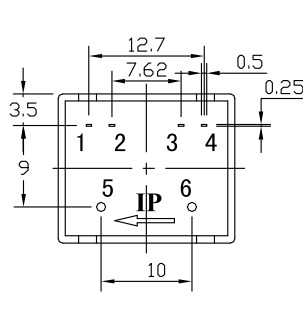


应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC, DC, pulsed and mixed current.

电参数/Electrical characteristics

	型号 Type	FSM005P	FSM010P	FSM015P	FSM020P	FSM025P	FSM030P	FSM050P	
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 Dimension of input terminal	Φ0.8	Φ1.0	Φ1.0	Φ1.4	Φ1.4	Φ1.6	Φ1.6	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
V_C	电源电压 Supply voltage	±15(±5%)							V
I_C	电流消耗 Current consumption	<25							mA
V_d	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							
e_L	线性度 Linearity	<0.1							%FS
X	精度 Accuracy	$T_A = 25\text{ }^\circ\text{C}$							%
V_0	零点失调电压 Zero offset current	±25							mV
V_{OT}	失调电压温漂 Thermal drift of I_0	$I_{PN}=0\ T_A = -25 \sim +70\text{ }^\circ\text{C}$							mV/°C
T_r	响应时间 Response time	<1							us
f	频带宽度(-3dB) Frequency bandwidth(-3dB)	DC~200							kHz
T_A	工作环境温度 Ambient operating temperature	-25~+85							°C
T_S	贮存环境温度 Ambient storage temperature	-40~+100							°C
	标准 Standard	GI/FS-0105							

外形尺寸 (mm) /Dimensions of drawing (mm)



引脚说明
1:VOUT
2:+15V
3:-15V
4:GND
5:-IN
6:+IN

Elucidation: 1:VOUT 2:+15V 3:-15V 4:GND 5: -Input 6:+Input

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。
 - 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。
- Incorrect connection may lead to the damage of the sensor.
·VOUT is positive when the IP flows in the direction of the arrow.