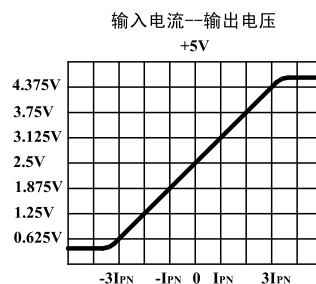
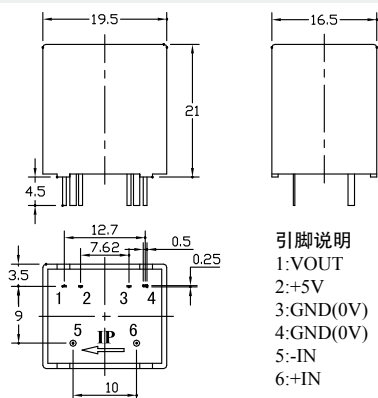


应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

电参数/Electrical characteristics

型号 Type	FSM005PT5	FSM010PT5	FSM015PT5	FSM025PT5		
I_{PN}	原边额定输入电流 Primary nominal input current	5	10	15	25	A
I_P	原边电流测量范围 Measuring range of primary current	0~±16	0~±32	0~±48	0~±80	A
	输入引脚尺寸 Dimension of input terminal	Φ0.8	Φ1.0	Φ1.0	Φ1.4	mm
K_N	匝数比 Conversion ratio	2: 1600	1: 1600	1: 1200	1: 1500	
R_M	内接测量电阻 Internal measuring resistance	100	100	50	37.5	Ω
V_{SN}	副边额定输出电压 Secondary nominal output voltage	0.625±0.5%				V
V_C	电源电压 Supply voltage	±15(±5%)				mA
I_C	电流消耗 Current consumption	<25				
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				%FS
ϵ_L	线性度 Linearity	<0.1				%
X	精度 Accuracy	$T_A = 25^\circ C$	±0.7			mV
V_O	零点失调电压 Zero offset current	±25				mV/°C
V_{OT}	失调电压温漂 Thermal drift of I_O	$I_P=0 T_A = -25 \sim +85^\circ C$	<±0.5			A/uS
di/dt	跟随精度 di/dt accurately followed	>50				ns
T_r	响应时间 Response time	<500				kHz
f	频带宽度(-3dB) Frequency bandwidth(-3dB)	DC~200				C
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				
	标准 Standard	GI/FS-0105				

外形尺寸 (mm) /Dimensions of drawing (mm)



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.