

FSM300LT 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。

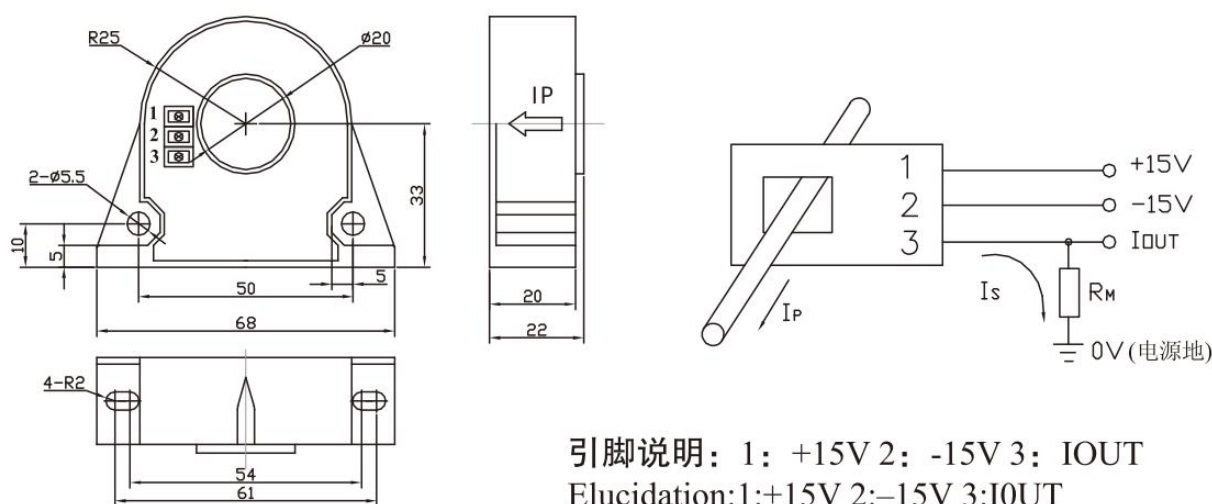


Close loop current sensor based on the principle of Hall-effect. It can be used for measuring AC, DC, pulsed and mixed current.

电参数/ Electrical characteristics						
	型号 Type	FSM050LT	FSM100LT	FSM200LT	FSM300LT	
IPN	原边额定输入电流 Primary nominal input current	50	100	200	300	A
Ip	原边电流测量范围 Measuring range of primary current	0～± 75	0～± 150	0～± 300	0～± 500	A
IsN	副边额定输出电流 Secondary nominal output current	50	50	100	150	mA
KN	匝数比 Conversion ratio	1:1000	1:2000	1:2000	1:2000	
	测量电阻 (Vc=±15V/IpM) Measuring resistance(Vc=±15V/IpM)	186 (max)	175 (max)	100 (max)	56 (max)	Ω
RM	(Vc=±15V/Ip)	117 (max)	106 (max)	56 (max)	21 (max)	Ω
	(Vc=±18V/IPN)	304 (max)	293 (max)	130 (max)	75 (max)	Ω
	(Vc=±18V/Ip)	159 (max)	148 (max)	75 (max)	31 (max)	Ω
Vo	电源电压 Supply voltage	±12～±18 (±5%)				V
Io	电流消耗 Current consumption	Vc=±15V				

TA	工作环境温度 Ambient operating temperature	-40~+100				℃
Ts	贮存环境温度 Ambient storage temperature	-40~+125				℃
Rs	副边线圈内阻 TA=25℃ Secondary coil resistance(TA=25℃)	14	25	25	25	Ω
	标准 Standard	GI/FS-0105				

外形尺寸(mm)/Dimensions of drawing (mm)



引脚说明: 1: +15V 2: -15V 3: IOUT
Elucidation: 1: +15V 2: -15V 3: IOUT

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。
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.
- 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.
- 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.