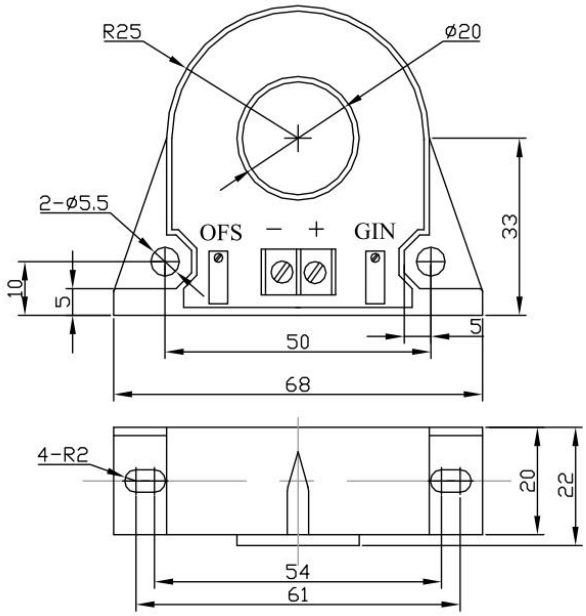
A-FS2100LT 系列两线交流电流变送器

应用电磁感应原理的电流传感器，能在电隔离条件下测量交流信号电流，输出和被测电流有效值 成比例的 4-20mA 直流电流输出。它们仅需两线制连接，无需单独的回路电源。

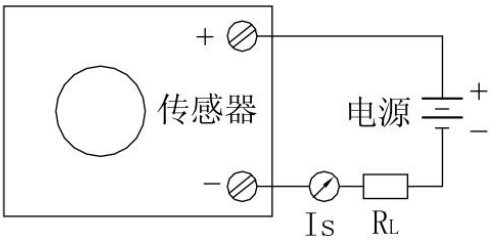
The current sensor using the principle of electromagnetic induction can measure the AC signal current under the condition of electrical isolation, and output 4-20mA DC current output proportional to the effective value of the measured current. They require only a two-wire connection and do not require a separate loop power supply.

电参数/Electrical characteristics						
	型号 Type	A-FS2010LT	A-FS2020LT	A-FS2050LT	A-FS2100LT	
I_{PN}	原边输入电流量程 Primary input current range	0～10(AC)	0～20(AC)	0～50(AC)	0～100(AC)	A
I_S	副边输出电流 Secondary output current	4-20(DC)				mA
R_L	负载电阻 Load resistance	0～250				Ω
I_P	过载 Overload	IPN X120%				A
V_C	电源电压 Supply voltage	负载250Ω时	+12～+35			V
ε_L	线性度 Linearity	<0.2				%FS
X_G	精度 Accuracy	TA =25 ℃	±0.5			%FS
I_{OT}	输出电流温度漂移 Output current temperature drift	TA =-25～+85℃		<0.005		mA/ ℃
T_r	响应时间 Response time	≤300				ms
f	响应频率 Response frequency	40Hz～5kHz				
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				
T_A	工作环境温度 Ambient operating temperature	-25～+85				℃
T_S	贮存环境温度 Ambient storage temperature	-40～+100				℃
	内部保护 Inner protect	过电压保护，过大电流保护，极性保护				

外形尺寸(㎜)/Dimensions of drawing (mm)



外部接线图/Connection



端子说明: +, 电源正-, 电源负 OFS, 零点 调节GIN, 幅度调节

Elucidation: +, power supply positive -, power supply negative OFS, zero adjustment GIN, amplitude adjustment

使用说明/Remarks

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.