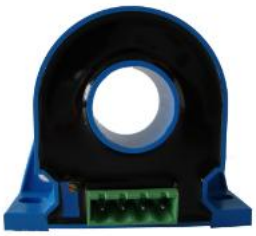


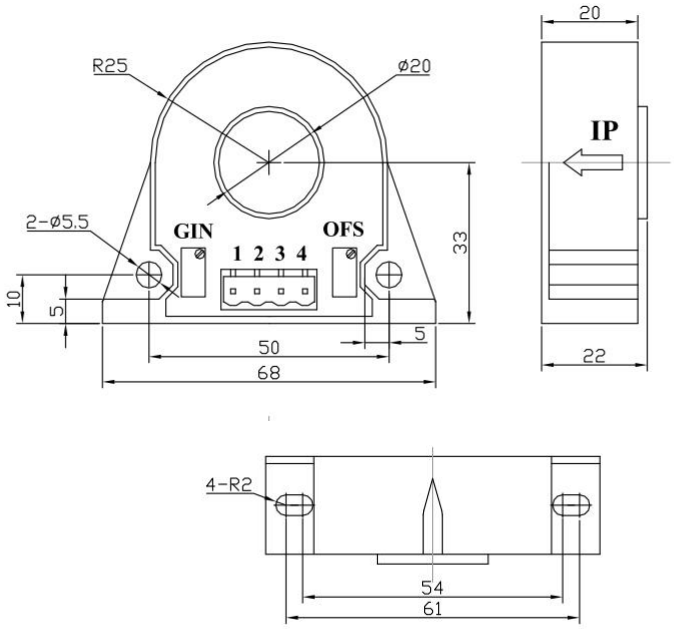
D-FS010LT 系列直流漏电流传感器

应用磁调制原理研制而成的一种新型电流传感器,能在电隔离条件下测量 mA 级直流小信号的电流。

A new type of current sensor based on the principle of magnetic modulation ,which can measure the current of mA level DC small signal under the condition of electrical isolation.

电参数/Electrical characteristics						
	型号 Type	FS-010LT	FS-020LT	FS-050LT	FS-100LT	
I_{PN}	原边额定输入电流 Primary nominal input current	10	20	50	100	mA
I_P	原边电流测量范围 Measuring range of primary current	0～±20	0～±40	0～±100	0～±200	mA
V_{OUT}	副边额定输出电压 Nominal output voltage	5±1%				V
V_C	电源电压 Supply voltage	±12～±15 （ ±5%）				V
I_C	电流消耗 Current consumption	V_C=±15V <30				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 2.5KV RMS /50Hz/1 min between primary and secondary side circuits				
ε_L	线性度 Linearity	<±1				%FS
V_O	零点失调电压 Offset voltage	T_A =25 ℃		±30		mV
V_{OT}	失调电压温漂 Thermal drift of V_O	I_P=0 T_A = -10～+70℃		<±1		mV/℃
f	频带宽度 Frequency bandwidth	DC				
T_A	工作环境温度 Ambient operating temperature	-10～+70				℃
T_S	贮存环境温度 Ambient storage temperature	-25～+85				℃
R_L	负载电阻 Load resistance	≥10K				Ω

外形尺寸(mm)/Dimensions of drawing(mm)



引脚说明：1,+15V 2,-15V 3,V_{OUT} 4,0V(电源地) OFS,零点调节 GIN:幅度调节

Elucidation：1,+15V 2,-15V 3,V_{OUT} 4,0V(GND) 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.