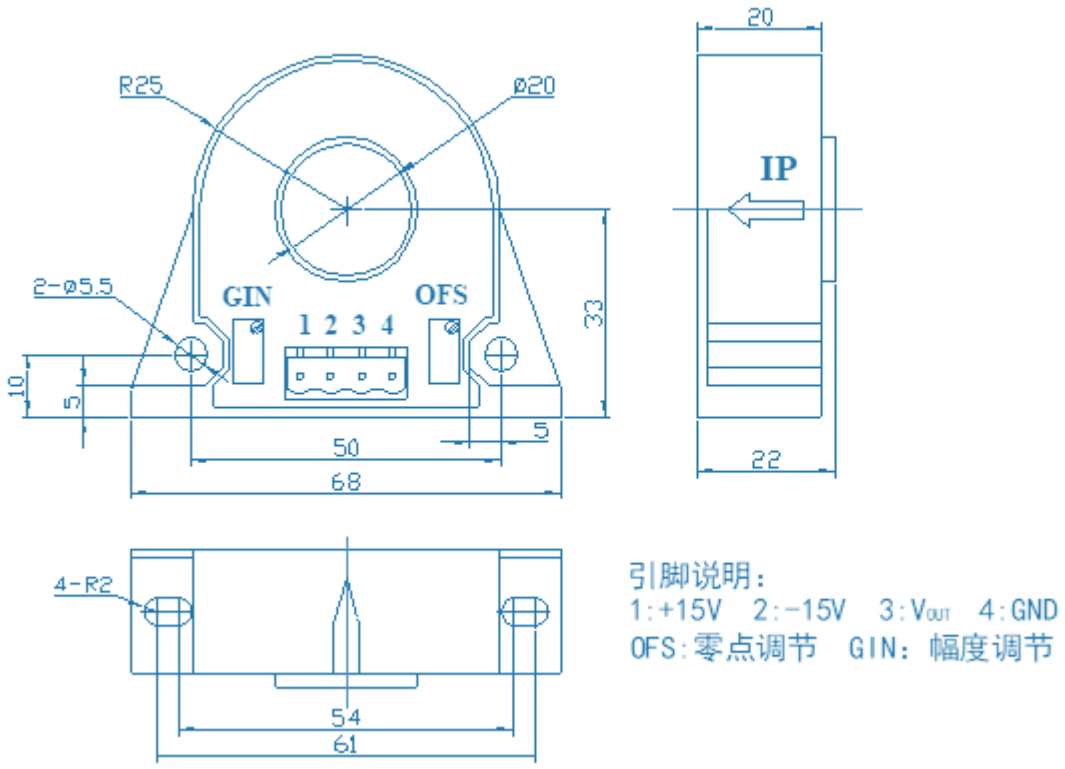
LO-DS010LT DC Residual current sensor

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

电参数						
	P/N	LO-DS010LT	LO-DS020LT	LO-DS050LT	LO-DS100LT	
I_{PN}	Rated input current	10	20	50	100	mA
I_P	Measuring current range	0 ~ ±12	0 ~ ±240	0 ~ ±60	0 ~ ±120	mA
V_{OUT}	Rated output voltage	5±1%				V
V_C	Power voltage	±12 ~ ±15（±5%）				V
I_C	Current loss	V_C=±15V	<30			mA
V_d	Hi-pot test	P-S:AC3KV/50Hz/60S				
ε_L	Linearity	<±1				%FS
V_0	Zero point offset voltage	T_A =25℃	±50			mV
V_{OT}	Temperature drift of malfunction	I_P=0 T_A = -10 ~ +70℃	<±1			mV/℃
f	Frequency band	DC				
T_A	Operation temperature	-10 ~ +70				℃
T_S	Storage temperature	-25 ~ +85				℃
R_L	Load resistor	≥10K				Ω
Dimensions（mm）						



Instructions

1、The incorrect wiring connection may cause sensor damage. When the sensor is electrified, the measured current passes through the arrow direction of the sensor, the in-phase voltage can be measured at the output end.

2、The output amplitude of the sensor can be adjusted appropriately according to the customers' requirements.

3、Sensors with different rated input currents and output voltages can be customized according to user requirements.