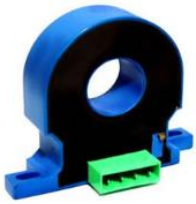
D-FS100LD/40 系列直流漏电流传感器

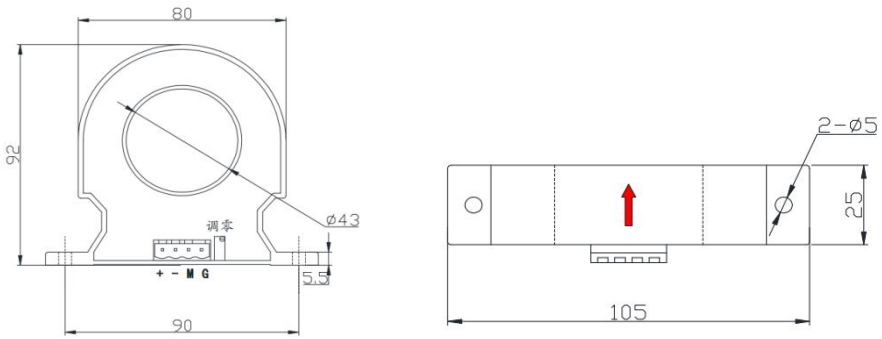


应用磁调制原理研制而成的一种新型电流传感器，其小电流的稳定性好，初级与次级之间高度绝缘，抗干扰能力强。信号变换后能够直接被PLC，二次仪表等各种采集装置直接采集和接受，广泛用于讯号系统、线路检测、漏电监测系统、电流差值测量。

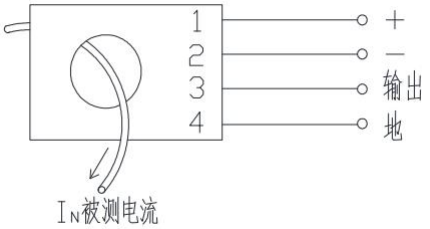
A new type of current sensor based on the principle of magnetic modulation has good stability of small current, high insulation between primary and secondary, and strong anti-interference ability. After signal conversion, it can be directly collected and accepted by PLC, secondary instrument and other acquisition devices, and is widely used in signal system, line detection, leakage monitoring system, current difference measurement.

电参数/Electrical characteristics				
	D-FS010LD/40	D-FS020LD/40	D-FS050LD/40	D-FS100LD/40
额定电流 I_{PN}（mA） Rated primary current	10	20	50	100
测量范围 I_P（mA） Measuring range	0...±20	0...±40	0...±100	0...±200
输出电压 V_0 Output voltage	输出额定值±5V，对应原边额定电流 The output rating is ±5V, corresponding to the rated current of the primary side			
精度 A_c Accuracy	±1%			
电源电压 Vcc Supply voltage	± 12...15V（±5%）			
绝缘电压 V Insulation voltage	在原边与副边电路之间： 50Hz，1min，3KV Between the primary and secondary side circuits: 50Hz, 1min, 3KV			
失调电压 V_{off} Offset voltage	当原边电流 I_N=0 时，最大值：±30mV When the primary current I_N=0, the maximum value is ±30mV			
温漂 V_{oT} Temperature drift	最大值：±1mV/℃ Maximum value: ±1mV/℃			
线性度 Le Linearity	≤ ±1%			
反应时间 T_{res} Response time	≤ 20mS			
工作温度 T_A Ambient operating temperature	-10℃ …+85℃			
贮存温度 T Ambient storage temperature	-40℃ …+85℃			
负载电阻 R_L Load resistance	>2KΩ			

外形尺寸(mm)/Dimensions of drawing(mm)



接线说明/Connection



引脚说明：1,+ 2,- 3,V_{OUT} 4,0V(电源地)

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

使用说明/Remarks

1.当待测电流从传感器穿过，即可在输出端测得电压大小； (注意：错误的接线可能导致传感器损坏)

When the current to be measured passes through the sensor, the voltage can be measured at the output end; (Note: Incorrect wiring may cause sensor damage)

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.