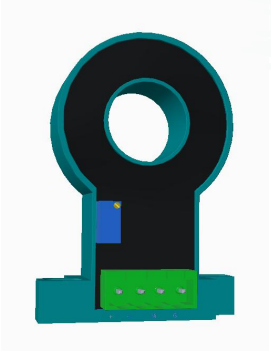
源弥科技

YMD1B 系列直流漏电流传感器



YMD1B 系列直流漏电流传感器是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。用于讯号系统、线路检测、漏电监测系统、电流差值测量。

YMD1B series DC leakage current sensor is a series of new device developed according to principle of electromagnetic induction. Its low current is stable. It is highly insulating between its primary coil and secondary coil. This sensor is used to measure

电参数 Electrical data(Ta=25℃±5℃)

型号 Type	YMD1B-10mA	YMD1B-20mA	YMD1B-30mA	YMD1B-50mA	YMD1B-100mA
额定测量电流 Rated input I_{PN}	±10mA	±20mA	±30mA	±50mA	±100mA
测量范围 Measure range I_P	±12mA	±24mA	±36mA	±60mA	±120mA
额定输出电压 Rated output voltage V_M	@ ±I_{PN}, R_M = 10 kΩ			±5V±1%	
负载电阻 Load resistance R_M	≥10kΩ				
电源电压 Supply voltage V_{CC}	DC ±12V～±15V（± 5%）				
静态电流消耗 I_C Quiescent current consumption	@$V_{C=}$±15V <13mA				
绝缘耐压 Galvanic isolation V_D	50Hz，1min，3KV				
线性度 Linearity ε_L	@（0～±I_{PN}）	<1%FS			
总体精度 Overall accuracy X	±1%				
零点失调电压 Offset voltage V_0	±50mV				
最小分辨率 Minimum discrimination	±10μA				
零点失调电压温漂 V_{OT} Offset voltage drift	≤1mV/℃				
工作环境温度 T_A Ambient operating temperature	-20～+85℃				
储存环境温度 T_S Ambient storage temperature	-40～+125℃				
质量 Mass m	≈65g				
执行标准 Standards	SJ 20790-2000；JB/T 7490-2007				

产品特点 Products Features

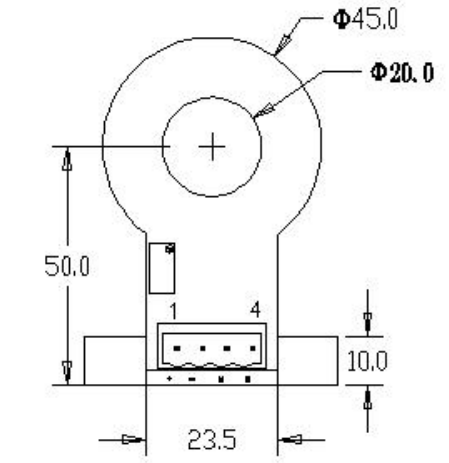
安装方便
Easy mounting
体积小，节省空间
Small size and space saving
无插入损耗
No insertion losses
抗干扰能力强
High immunity to external interference

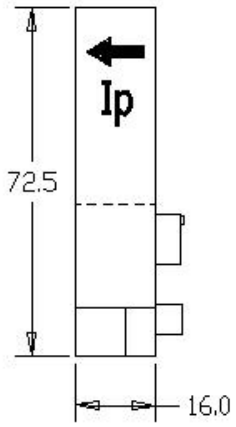
应用领域 Applications

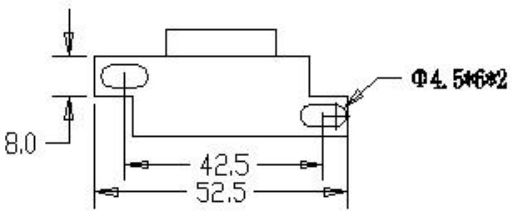
直流屏
Dc screen power supply
通讯电源
Battery supplied applications
不间断电源（UPS）
Uninterruptible Power Supplies
开关电源(SMPS)
Switched Mode Power Supplies

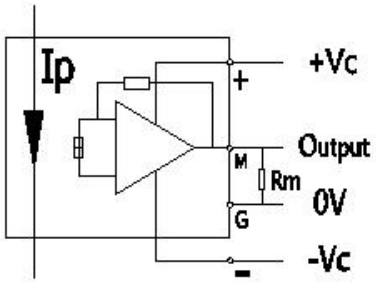
使用说明 Directions for use

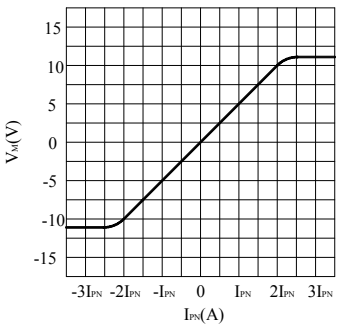
1、当待测电流从传感器穿过，即可在输出端测得电压大小。(注意：错误的接线可能导致传感器损坏)
When the current will be measured goes through a sensor, the voltage will be measured at the output end.
(Note: The false wiring may result in the damage of the sensor).
2、传感器的输出幅度可根据用户需要进行适当调节。
The output amplitude of the sensor can be adjusted according to users' requirements.
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。
Custom design in the different rated input current and the output voltage are available.











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