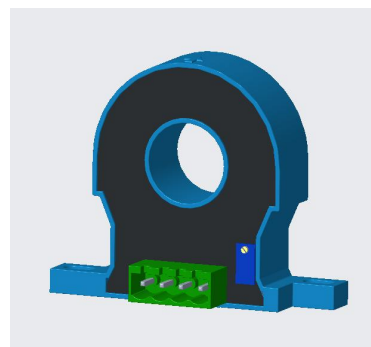


## YMD1 系列直流漏电流传感器 Series DC leakage current sensor

YMD1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。

YMD1 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 current of signal system, circuit, and leakage monitoring system, as well as to measure current difference.



### 电参数 Electrical data(Ta=25°C±5°C)

型号 Type	YMD1-10mA	YMD1-20mA	YMD1-50mA	YMD1-100mA	YMD1-500mA
额定测量电流 Rated input $I_{PN}$	±10mA	±20mA	±50mA	±100mA	±500mA
测量范围 Measure range $I_P$	±12mA	±24mA	±60mA	±120mA	±600mA
额定输出电压 Rated output voltage $V_M$	±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	<15mA				
绝缘耐压 Galvanic isolation $V_D$	50Hz, 1min, 3KV				
线性度 Linearity $\epsilon_L$	<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 $V_{or}$ Offset voltage drift	≤1mV/°C				
工作环境温度 $T_A$ Ambient operating temperature	-20~+85°C				
储存环境温度 $T_s$ Ambient storage temperature	-40~+125°C				
质量 Mass m	≈85g				
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.

### 结构参数 Mechanical dimension(for reference only)

