

霍尔电流传感器

Hall Current Sensor

一、概述 General

霍尔电流传感器广泛应用于逆变装置、UPS 电源、通信电源、电焊机、电力机车、变电站、数控机床、电解电镀、微机监测、电网监控等需要隔离检测电流的设施中。

Hall Current Sensor is widely applied in establishments where isolated current need to be examined, such as inversion equipment, UPS power supplier, communication power supplier, electric welding machines, electric motor-vehicle, transformer substation, digital-controlled lathe, plating, micro-machine monitoring, electric-network monitoring, etc.

二、型号 Model

YDG-HSD-5

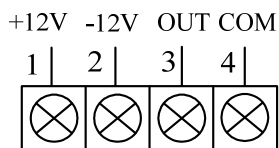
三、主要技术指标 Main technical index

- ✧ 执行标准 Standard: JB/T 7490-2007
- ✧ 外形尺寸 External dimensions: $74\pm 0.5\text{mm}\times 50\pm 0.5\text{mm}\times 33\pm 0.5\text{mm}$
- ✧ 精度等级 Accuracy: $\pm 1.0\%$
- ✧ 输入电流 Input current: 0A~600A
- ✧ 输出参数 Output: 0V~4V
- ✧ 输出负载 Output load: $\geq 20\text{k}\Omega$
- ✧ 工频耐压 Working frequency withstand voltage: AC3kV/min.1mA
- ✧ 工作环境 Working condition: 温度 Temperature $0^{\circ}\text{C}\sim 45^{\circ}\text{C}$
- ✧ 工作电源 Power supply: DC $\pm 12\text{V}\pm 8\%$
- ✧ 电源耗电 Power consumption: $< 1\text{W}$

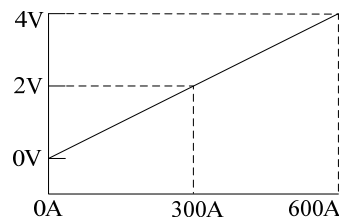
四、接线图及输出曲线对应图 Connecting Diagram& Output Curve Diagram

端子定义 Terminal definition

- 1、工作正电源端 Power supply anode
- 2、工作负电源端 Power supply cathode
- 3、测量输出端 Terminal for measuring output
- 4、电源（输出）公共端 Common terminal for power supplier(output)

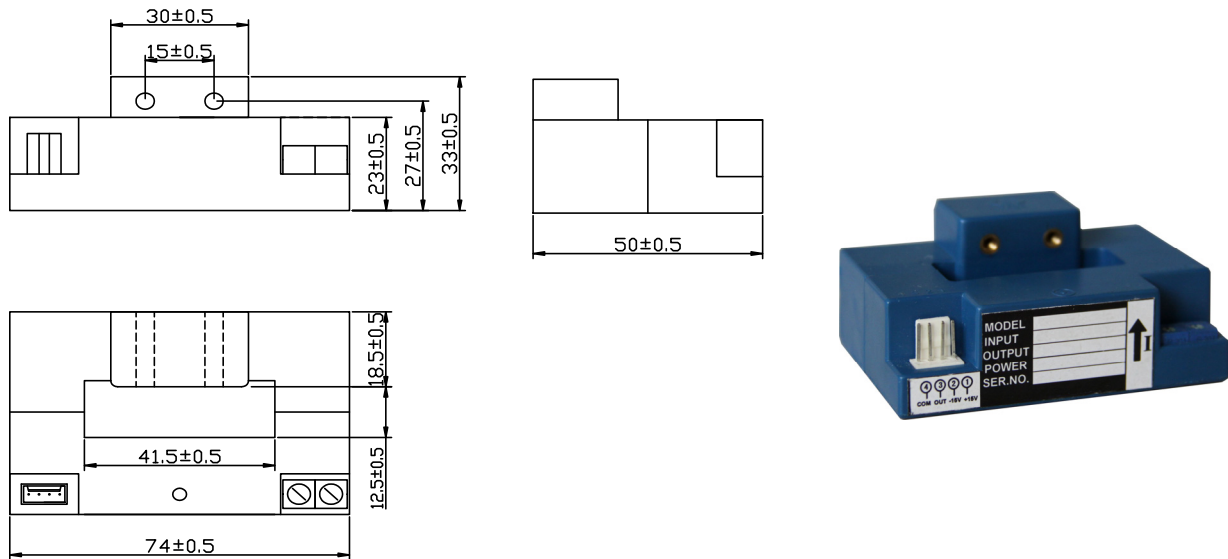


接线图 Connecting Diagram



输出曲线对应图 Output Curve Diagram

五、产品结构图 External Dimensions (单位 Units: mm)



六、安装 Installation

- ◇ 采用螺钉安装方式，螺钉大小为 M3。

Adopt setscrew for installation, screw size is M3.

七、注意事项 Notice

- ◇ 工作电源、输出端必须正确连接，不能错接；

Power supply and output terminals should be connected correctly;

- ◇ 对于两个电位器，请不要随意调整，若需调校，用小螺丝刀缓慢旋转至所需精度即可；

Avoid to adjust the two potentiometers; use small screwdriver to screw it slowly to the precision when necessary;

- ◇ 原边母线的温度不应超过 60℃；

The temperature of any generatrix should not over 60℃;

- ◇ 当电流母线填满原边穿线孔时，获得最佳的测量精度；

The best measuring precision is obtained when the any hole is full of current generatrix;

- ◇ 使用环境应无导电尘埃和无腐蚀金属和破坏绝缘的气体存在，海拔高度小于 2500 米。

The operating environment allows no electric dust or gases that corrodes metal or destroys insulation. The altitude is less than 2500m.

注：以上图片仅供参考，产品以实物为准，

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