

4 dry contact module

一、概述 (Overview)

HOTEKEY-4 路干接点模块是 HOTEKEY 公司开发研制的一种智能化 IO 信号控制器，是智能灯光控制系统的智能控制模块，提供 4 路干接点信号输入和 4 路 5V 信号输出。该模块采用 485 总线通讯方式，功能齐全，适用于智能控制领域。

The HOTEKEY-4 dry contact module is an intelligent IO signal controller developed by HOTEKEY. It is an intelligent control module of the intelligent lighting control system. It provides 4 dry contact signal inputs and 4 5V signal outputs. The module adopts 485 bus communication mode and has complete functions, which is suitable for intelligent control field.

二、功能特点 (Features)

- 一键更换模块，自动恢复模块数据和状态
- 4 路输入控制信号可设置为最多 4 种按键单击事件，2 种双击事件和 2 种长按事件。
- 4 路输入信号还可设为开关信号，分为常开和常闭 2 种状态，并可设置事件延时。
- 4 路输出可设为面板背光指示灯，也可驱动为 5V 高低电平信号输出，还可输出为 PWM 控制信号。
- 采用 485 总线方式通讯
- Replace the module with one button, automatically recover module data and status
- 4 input control signals can be set to up to 4 button click events, 2 double click events and 2 long press events.
- 4 input signals can also be set as switching signals, which are divided into two states: normally open and normally closed, and event delay can be set. The
- 4 output can be set as the panel backlight indicator, and can also be driven as a 5V high and low level signal output, and can also be output as a PWM control signal.
- Communication using 485 bus

三、主要技术参数 (The main technical parameters)

- 工作电压：DC 12V
- 输入电流：12mA DC 12V
- 输入回路：4 路
- 输出回路：4 路

4 路干接点模块

• 环境条件:

工作温度 0°C~45°C

工作相对湿度 20%~90%

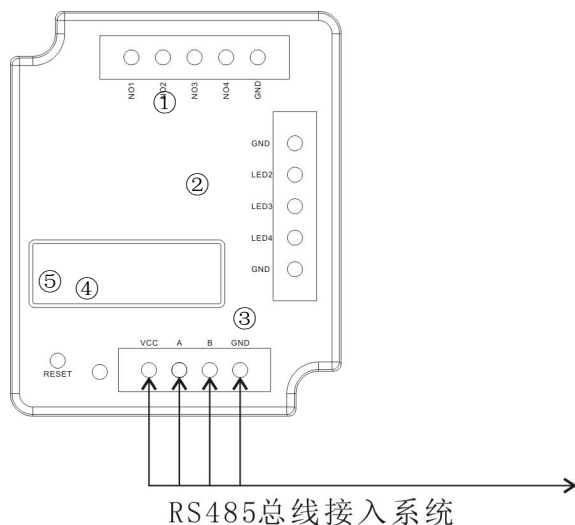
储存温度-40°C~+55°C

储存相对湿度 10%~93%

• 外形尺寸: 44mm×54mm×16mm

- Working voltage: DC 12V
- Input current: 12mA DC 12V
- Input circuit: 4 channels
- Output circuit: 4 way
- Environmental conditions:
- Working temperature 0 ° C ~ 45 °
- Working relative humidity 20%~90%
- Storage temperature -40 ° C ~ +55 °
- Store relative humidity 10%~93%
- Dimensions: 44mm × 54mm × 16mm

四、外观说明及连接示意图 (Appearance description and connection diagram)



- ① NO1~NO4 为 4 路信号输入端，GND 为接 地；
- ② LED1~LED4 为 4 路 LED 输出，GND 为接地；
- ③ DC12V 、 A、 B、 GND 为 485 总线接线端；
- ④ 模块指示灯：模块正常工作时，为稳定的 1 秒闪烁，当使能了记忆功能时，模块记忆状态，指示灯快闪 3 秒，模块出厂和检测状态过程中，指示灯保持常亮；
- ⑤ 复位和出厂按键

单按该按键超过 1 秒时，识别为复位操作，执行模块复位功能，长按该按键超过 5 秒时，识别为出厂功能，模块出厂会清掉所有数据，数据清空后会自动向交换机申请恢复数据和状态，该功能用于一键更换非正常工作的模块，或恢复模块数据。

- ① NO1~NO4 are 4 signal input terminals, and GND is ground;
- ② LED1~LED4 are 4 LED outputs, GND is grounded;
- ③ DC12V , A、 B、 GND are 485 bus terminals;
- ④ Module indicator:

When the module is working normally, it will be stable for 1 second. When the memory function is enabled, the module remembers the status and the indicator flashes for 3 seconds. During the module factory and detection status, the indicator light remains on.

- ⑤ reset and factory button

When the button is pressed for more than 1 second, it is recognized as the reset operation, and the module reset function is executed. When the button is pressed for more than 5 seconds, it is recognized as the factory function. The module will clear all the data after the factory shipment, and the data will be automatically applied to the switch after the data is cleared. Data and status, this function is used to replace a module that is not working

properly, or to recover module data.

五、主要设置说明 (Main setup instructions)

该模块接入 485 总线，打开“系统设置软件”，搜索并设置该模块。

- 本机通讯地址

本机通讯地址由模块搜索功能自动分配。

- 区域

区域是对本模块回路的划分，一个区可含回路数最多 4 个，一个回路只能分配给一个区，最多可设置 4 个独立区域。

点击“分区”对 4 个回路分区。

- 输出单元

对 4 路输出单元参数的设置，包括回路备注、输出类型等设置。

“负载测试”对回路状态测试。

- 输入单元

对 4 路输入单元的设置，包括绑定的控制事件的设置、信号输入类型等设置

The module is connected to the 485 bus, open the "system setup software", search and set the module.

- Local communication address

The local communication address is automatically assigned by the module search function.

- area

The area is the division of the circuit of this module. One area can contain up to 4 loops, one loop can only be assigned to one zone, and up to 4 independent zones can be set. Click on "Partition" to partition the 4 loops.

- output unit

Set the parameters of the four output units, including loop notes, output types, and so on.

"Load Test" tests the loop status.

- Input unit

Settings for 4 input units, including settings for binding control events, signal input types, etc.

安装连接

• 安装条件

安装位置要通风良好，注意防潮、防震、防尘。

• 接线规格

本模块干接点信号连接线：超五类线。

本模块 LED 输出端连接线：超五类线。

485 总线连接线：采用超五类线。

Installation connection

Installation conditions

The installation location should be well ventilated, pay attention to moisture, shock and dust.

Wiring specification

This module dry contact signal connection line: Super five types of lines.

This module LED output terminal connection line: Super five types of lines.

485 bus connection line: using super five types of lines.

六、安全使用与维护保养 (Safe use and maintenance)



警告

1. 使用前详细阅读所有说明。
2. 勿靠近干扰设备。
3. 要建立良好通风散热环境。
4. 在使用过程中，注意防潮、防震、防尘。
5. 严禁雨淋、接触其它液体或腐蚀性气体。
6. 定期除尘，不能用酒精、汽油等挥发性液体擦拭。
7. 如受潮或被液体侵袭，应及时进行干燥处理。
8. 定期检查线路的受损和老化程度，应及时更换不合格线路。
9. 机器出现故障时，请与专业维修人员或本公司联系。

1. Read all instructions carefully before use.
2. Do not get close to the interference device.
3. To establish a good ventilation and heat dissipation environment.
4. During use, pay attention to moisture, shock and dust.

5. Do not expose to rain or other liquids or corrosive gases.
6. Regular dust removal, can not be wiped with volatile liquids such as alcohol and gasoline.
7. If it is wet or invaded by liquid, it should be dried in time.
8. Regularly check the damage and aging of the line, and replace the unqualified line in time.
9. When the machine malfunctions, please contact a professional service person or the company.

The AC220V~240V power supply of this module must pass the appropriate circuit breaker ($\geq 10A$). Wiring should meet the requirements.

七、Contacts

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