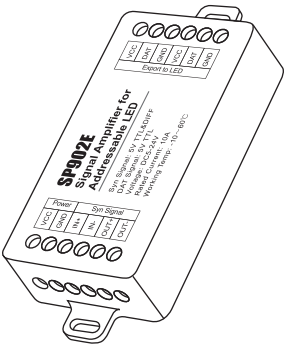
使用说明书

SP902E分控器



产品特点

1、兼容TTL和RS485两种不同类型的信号输入；

2、两路强驱动TTL信号输出，满足用户实现多路强信号控灯需求；

3、分控器与分控器之间级联采用差分的RS485信号，从而实现信号超长距离传输；

4、可单独使用，可多台级联使用；

5、DC5~24V宽电压输入，电源具有防反接功能。

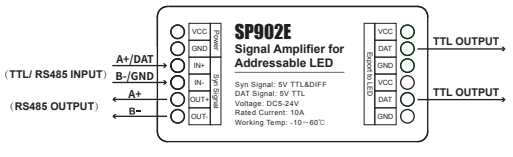
注意事项

1、分控器通过的电流有限，若用户的灯具所需要的电流过大则需要另外补电，防止分控制器通过电流太大导致过热损坏；

2、分控器的TTL信号输出的强度与带载灯具的芯片类型、
与灯具之间连线的长度、线径和并联的灯具数量均有关，请根据实际情况，在合理范围内使用；

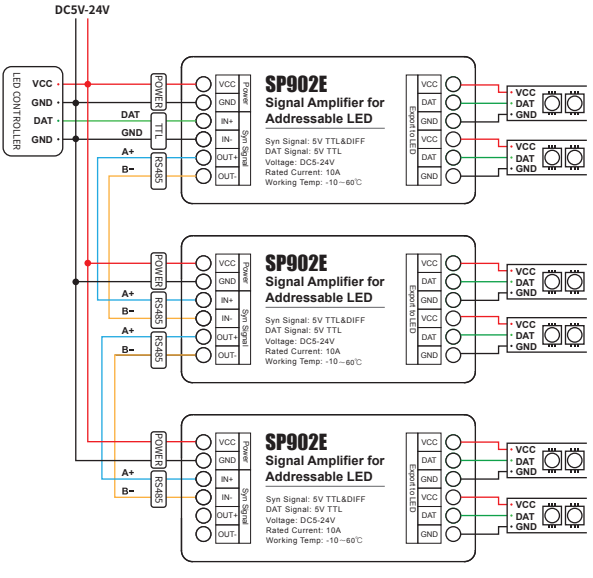
3、分控器之间的传输距离与使用的线材与环境均有关，如需超长距离信号传输或使用环境复杂干扰较多，请使用屏蔽双绞线或5类或超5类网线。

端口说明



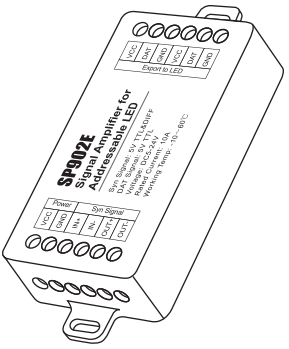
Power端口	**电源输入端口**——VCC接电源正极，GND接电源负极，支持DC5V-24V宽电压输入
Syn Signal端口	**系统级联信号输入和级联信号输出端口**——输入信号兼容TTL和RS485两种类型 ▶ **“IN+/IN-”接口：** 级联信号输入口（接主控制器时,主控的DAT接“IN+”,GND接“IN-”；分控器级联时,上一级分控器的“OUT+”接“IN+”、“OUT-”接“IN-”） ▶ **“OUT+/OUT-”接口：** 级联信号输出接口（“OUT+”和“OUT-”接口分别接下一台分控器的“IN+”和“IN-”接口）
Export to LED端口	**两组LED灯具端口** ▶ **“VCC DAT GND”接口：** 灯控信号输出端口和电源输出端口

接线方式



Instructions

SP902E Signal Amplifier



Product Features

1. Compatible with both TTL and RS485 signal inputs;

2. Two channels of strong-drive TTL signal output to meet users' needs for multiple strong signal control of lighting;

3. Differential RS485 signal is used for cascading between amplifiers to achieve long-distance signal transmission;

4. Can be used alone or in cascade with multiple units;

5. Supports wide voltage input from DC5 to 24V, with reverse connection protection function.

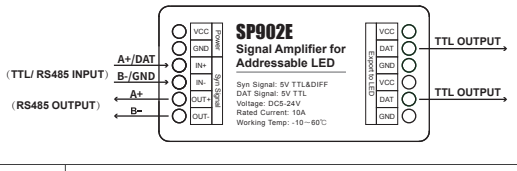
Precautions

1. The current passed by the controller is limited. If the LED lighting requires a current that exceeds the limit, additional power supply is needed to prevent overheating and damage to the amplifier;

2. The strength of the TTL signal output by the amplifier is related to the type of chip used in the connected LED, the length and thickness of the connecting wires, and the number of LED connected in parallel. Please use it within a reasonable range according to the actual situation;

3. The transmission distance between amplifiers is affected by the type of wire used and the surrounding environment. If you need to transmit signals over a long distance or in a complex environment with a lot of interference, please use shielded twisted pair or CAT5 or higher Ethernet cables.

Port Descriptions



Power	**Power input port**—— VCC is connected to the positive terminal of the power supply and GND is connected to the negative terminal, It supports a wide voltage input range of DC5V-24V
Syn Signal	**Cascading signal input and output port**——Compatible with both TTL and RS485 signal inputs ▶ **"IN+/IN-" :** Cascading signal input port (When connecting to the main controller, DAT of the main controller is connected to "IN+", and GND is connected to "IN-"; When cascading with sub-amplifier, "OUT+" of the previous sub-amplifier is connected to "IN+" and "OUT-" is connected to "IN-") ▶ **"OUT+/OUT-" :** Cascading signal output port ("OUT+" and "OUT-" are respectively connected to "IN+" and "IN-" of the next sub-amplifier)
Export to LED	**Port for connecting two sets of LED** ▶ **VCC DAT GND :** Signal output and power output for the LED

Wiring Instructions