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Menu:iLife 物联万家

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智能家居、智慧酒店、智慧办公整体解决方案专业供应商

Menu:iLife(中国) www.menuilife.com 上海明纽智能科技有限公司

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COMPANY INTRODUCTION

公司简介

上海明纽智能科技有限公司是中国智能化产业联盟理事单位，主要从事智能家居系统研发、多媒体影音技术、中央集成控制系统、多媒体互动系统、设计、安装和售后服务的专业企业。目前拥有智能系统研发、智能生活设计、商用音视频展示、三个核心服务，可以全面地为客户提供专业音视频会议系统的解决方案，努力成为智能多媒体领域的专业先锋。在推动服务的同时，公司加强在技术方面的投入，结合公司在多媒体显示设备领域的专业理解，致力于智能家居系统、家庭影音系统、多媒体互动工程、软件开发、技术咨询、智能楼宇等工程服务。在多年的弱电系统集成项目运营过程中，培养出一支专业的售后服务团队，通过多年的积累，建立了完善的售后服务体系而已提供设备的维护，维修，保养及会议系统的综合管理服务。我们的团队：我们拥有高于国内行业标准的技术团队，服务过万科，正荣，金地，万达等大型地产商；参与过2010世博会日本企业馆，上海大光明影院，霍而果斯慧百传媒音乐录音棚等大型影音设计；从事过上海长宁区智慧指挥中心的设计搭建，施工，改造等政府项目。智能化，就是选择Menu:iLife（明纽智能）！

Shanghai Menulife Intelligent Technology Co., Ltd. is the governing unit of China Intelligent Industry Alliance. It is a professional enterprise mainly engaged in research and development of intelligent home system, multimedia audio-visual technology, central integrated control system, multimedia interactive system, design, installation and after-sales service. At present, it has three core services: intelligent system research and development, intelligent life design, commercial audio and video display, and can comprehensively provide customers with professional audio and video conference system solutions, striving to become a professional pioneer in the field of intelligent multimedia. While promoting services, the company has strengthened its investment in technology, combined with its professional understanding in the field of multimedia display equipment, and is committed to engineering services such as smart home systems, home audio-visual systems, multimedia interactive engineering, software development, technical consultation, intelligent buildings, etc. During the operation of the weak current system integration project for many years, a professional after-sales service team has been trained. Through years of accumulation, a perfect after-sales service system has been established to provide comprehensive management services of equipment maintenance, repair, maintenance and conference system. Our team: We have a technical team that is higher than the domestic industry standard and have served Vanke, Zhengrong, Jindi, Wanda and other large developers. Participated in large-scale audio-visual design such as Japan Enterprise Pavilion, Shanghai Great Brightness Cinema, Horgos Huibai Media Music Recording Studio, etc. in 2010 World Expo. He has been engaged in the design, construction and renovation of Shanghai Changning District Intelligence Command Center. Intellectualization means choosing Menu:iLife!

明纽智能，与您携手共赢。。。

MU-BUS---Our smart life experience...

智能家居整体解决方案专业提供商

Menu:iLife
Our Smart application



BUS PROTOCOLS

总线协议

自成立以来，公司致力于为客户提供一流的环境照明智能控制系统和智能建筑能源管理解决方案。依托专业的研发队伍，公司成功研发出具有自主知识产权的MU-BUS控制总线协议，并基于该总线协议，成功研发出MU系列智能继电器开关模块及调光控制模块、MU智能照明控制系统和Lighting μ System智能照明控制管理系统。MU系列产品可以单独自组解决方案的同时，也可以与市场上不同通讯协议的系统搭配，实现灵活多样的行业智能化控制解决方案。

Since Easyctrl was founded, the company has been dedicating itself to provide customers with first-class environmental lighting intelligent control system and intelligent building energy management solutions. Relying on professional R & D team, Easyctrl has successfully developed a MU-BUS control bus protocol with independent intellectual property rights. Based on MU-BUS protocol, Easyctrl has also successfully developed intelligent switch modules, dimmer control modules for MU series, MU intelligent lighting control system and Lighting μ System intelligent lighting control system. MU-series products can be used to achieve flexible and diverse industry intelligent control solutions based on independent MU-BUS protocol or communicating with different system protocols on the market.

MU-BUS

LIGHTING CONTROL SOLUTIONS



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PRODUCT APPLICATION

产品应用

明纽智能产品已广泛应用于各个领域，包括酒店、办公楼、别墅、家居、会展中心、剧院、博物馆、医院、学校、机场、车站等室内及公共区域的智能化控制系统。凭着丰富的智能控制行业经验，优质的智能控制系统产品及一流的智能控制行业解决方案，明纽智能为客户提供超越期望的价值，让所有使用者都能体验安全、便捷、舒适、经济的智能化生活。

Our products have been widely used in the indoor or public area intelligent control system in various fields, such as hotels, commercial buildings, villas, home, convention centers, theaters, museums, hospitals, schools, airports, railway stations. Based on rich smart control industry experience, high quality control system products and first-class intelligent control industry solutions, Easyctrl provides customers with value beyond their expectations, excellent intelligent life experiences which are safe, convenient, comfortable and economic.



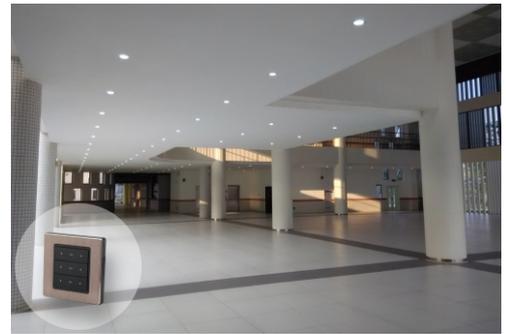
别墅



博物馆



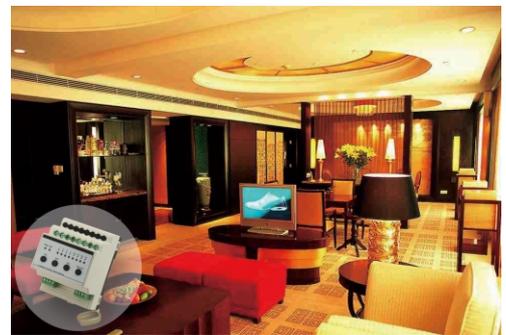
体育馆



学校



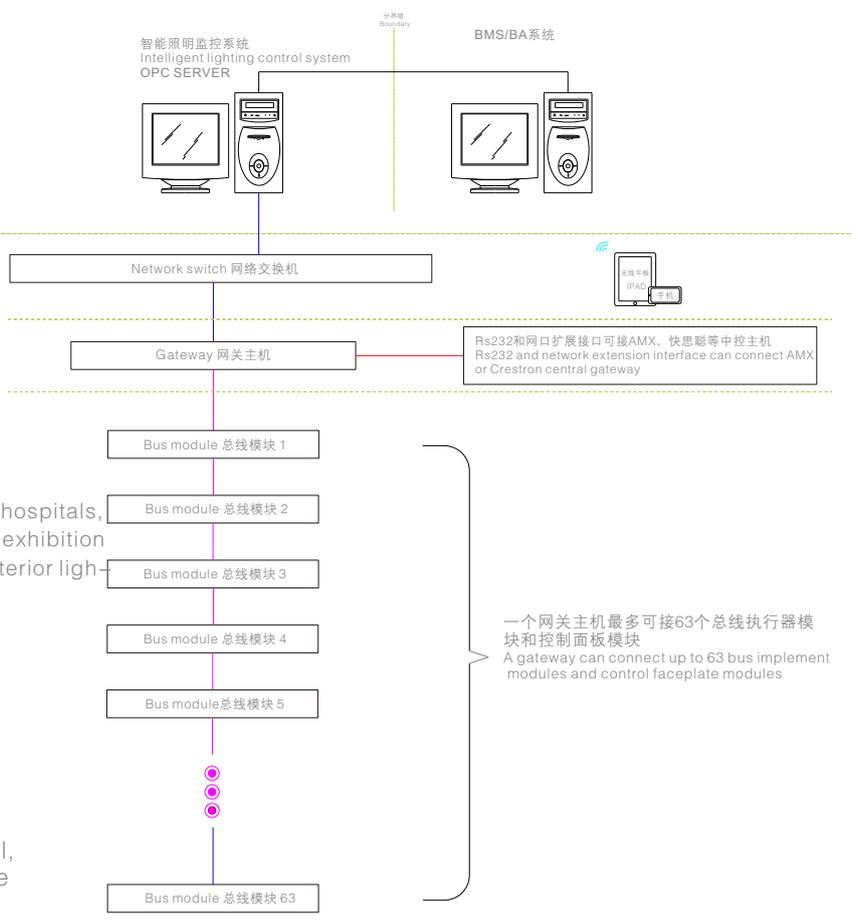
餐厅



酒店

SINGLE AREA SYSTEM NETWORK DIAGRAM

单区域系统组网图



应用领域:

■ 办公楼、商场、医院、学校、星级酒店、主题公园、体育馆、会展中心、小区景观、建筑外景照明、工厂;

Application area:

■ Commercial buildings, shopping malls, hospitals, schools, hotels, theme parks, gymnasium, exhibition center, residential landscape, building exterior lighting, factory;

系统功能:

■ 通过各种控制终端对系统内灯光、窗帘实现单控、集控、定时控制;

System functions:

■ Can single-control, central-control, timer-control the lights, curtains in the system via control terminals;

系统特点:

- 系统开放性、兼容性;
- MU-BUS总线提供RS485和TCP/IP网口可与其他系统对接;
- 35mm导轨安装, 插拔式拆卸, 图形化标识, 使用简便;
- 多功能集成控制;
- 控制方式多样;
- 安全、可靠、节能;
- 既是面向使用者的系统又是面向管理者的系统;

System characteristics:

- System's openness and compatibility;
- MU-BUS can connect with other systems via RS485 or TCP network port;
- Standard 35mm DIN-Rail Installation, plug and play, graphical identification, easy to use;
- A variety of control modes;
- Safe, reliable, energy conservation;
- System orients to users and managers;

系统组成:

- 导轨式智能网关主机;
- 导轨式系统电源;
- 模块: 灯光开关控制模块、调光模块、窗帘控制模块;
- 面板: 灯光开关场景控制面板、无线控制面板、窗帘控制面板;
- 传感器: 人感、光感、温感、烟感、可燃气体感应等;
- 人机界面: 电脑、手机、无线触摸屏、有线3.5\4.3\7寸有线真彩触摸屏;

System composition:

- Din rail type intelligent gateway;
- Din rail type system power supply;
- Module: Lighting switch control module, Dimmer module, Curtain control module;
- Faceplate: Lighting switch and scene control faceplate, Wireless control faceplate, Curtain control faceplate;
- Sensor: Person sensor, Light sensor, Temp sensor, Weather sensor, Smoke sensor, combustible gas sensor, etc;
- Man-machine interface: Computer, mobile phone, wireless touch panel, 3.5\4.3\7 inch wired real color touch panel;

MULTI AREA SYSTEM NETWORK DIAGRAM

多区域系统组网图



应用领域:

■ 办公楼、商场、医院、学校、星级酒店、主题公园、体育馆、会展中心、小区景观、建筑外景照明、工厂；

Application area:

■ Commercial buildings, shopping malls, hospitals, schools, hotels, theme parks, gymnasium, exhibition center, residential landscape, building exterior lighting, factory;

系统功能:

■ 通过各种控制终端对系统内灯光、窗帘实现单控、集控、定时控制；

System functions:

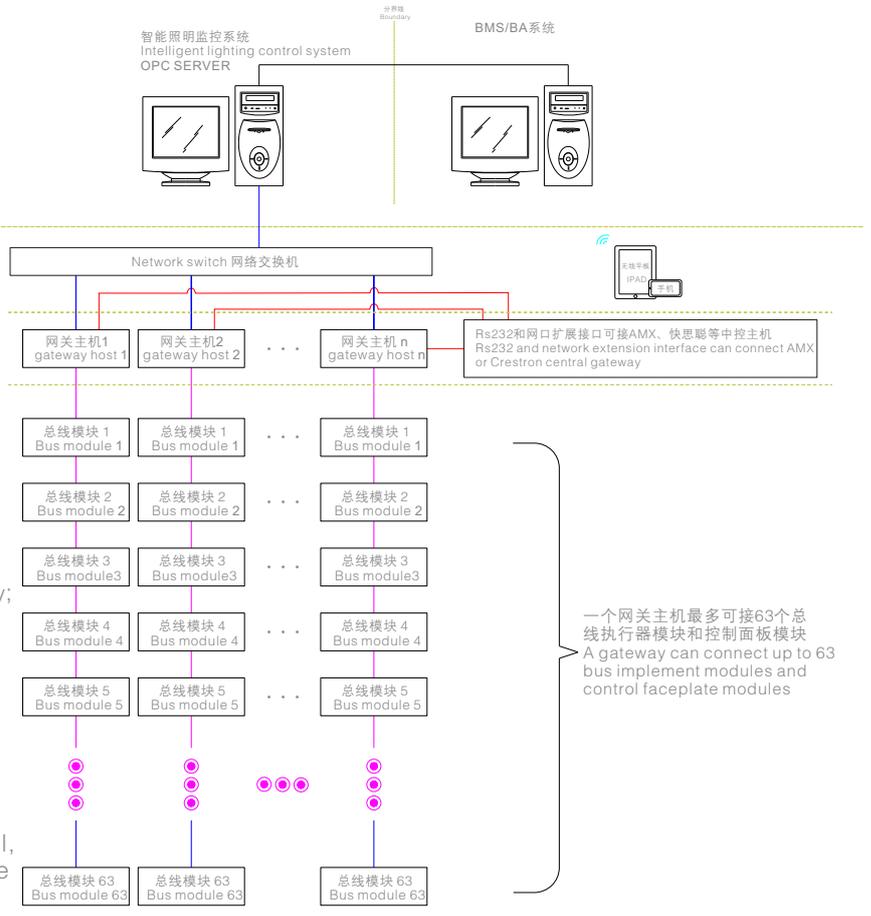
■ Can single-control, central-control, timer-control the lights, curtains in the system via control terminals;

系统特点:

- 系统开放性、兼容性；
- MU-BUS总线提供RS485和TCP/IP网口可与其他系统对接；
- 35mm导轨安装，插拔式拆卸，图形化标识，使用简便；
- 多功能集成控制；
- 控制方式多样；
- 安全、可靠、节能；
- 既是面向使用者的系统又是面向管理者的系统；

系统组成:

- 导轨式智能网关主机；
- 导轨式系统电源；
- 模块：灯光开关控制模块、调光模块、窗帘控制模块；
- 面板：灯光开关场景控制面板、无线控制面板、窗帘控制面板；
- 传感器：人感、光感、温感、烟感、可燃气体感应等；
- 人机界面：电脑、手机、无线触摸屏、有线3.5\4.3\7寸有线真彩触摸屏；



System characteristics:

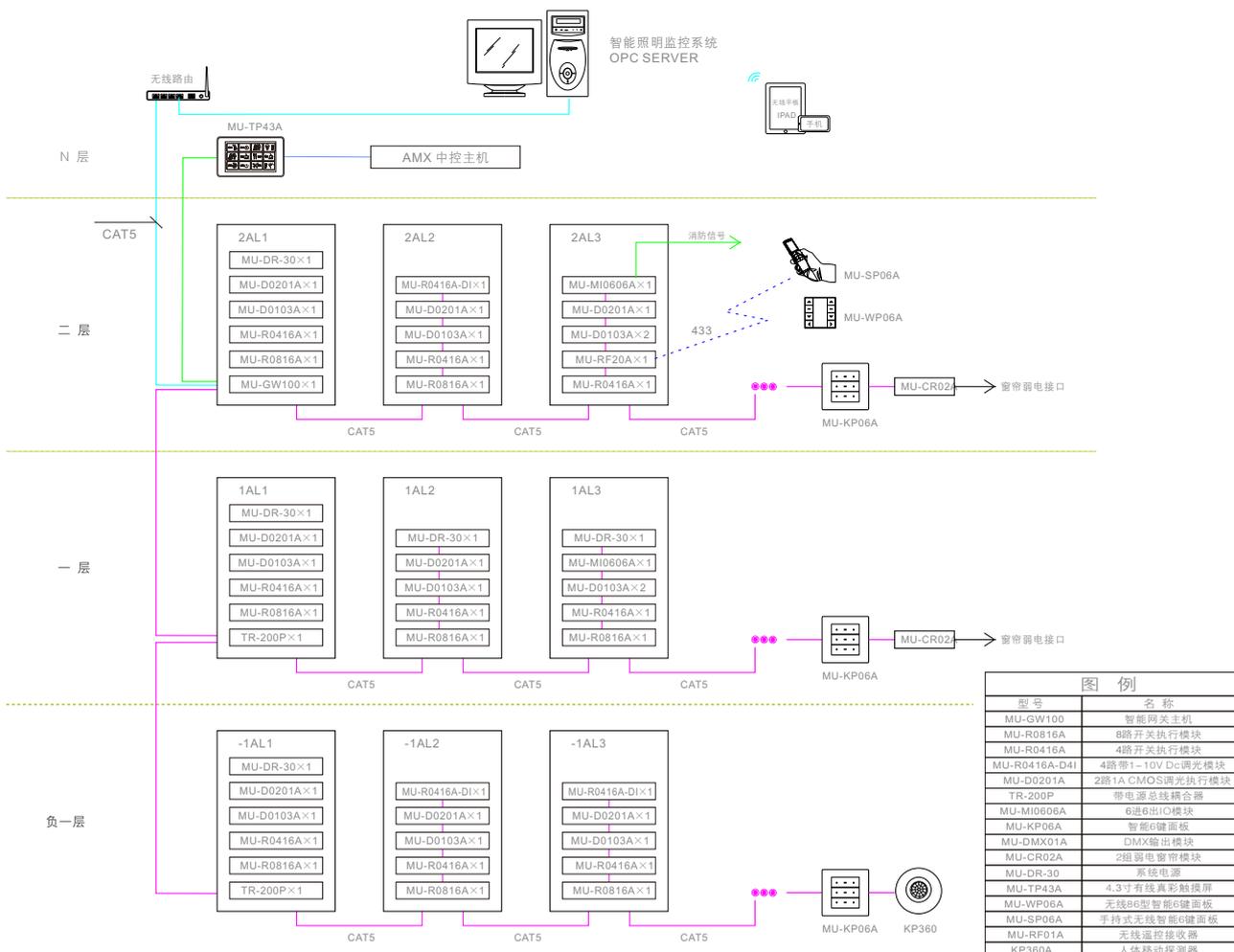
- System's openness and compatibility;
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- A variety of control modes;
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- Man-machine interface: Computer, mobile phone, wireless touch panel, 3.5\4.3\7 inch wired real color touch panel;

SINGLE AREA SYSTEM TOPOLOGICAL GRAPH

单区域系统拓扑图



图例为MU-BUS总线系统拓扑图（单区域组网）示意，总线设备需在64个内（不含主机、电源、耦合器等无地址设备），该组网方式适合小范围区域使用，如：展厅、会议室、博物馆、别墅等；

The following illustration is a topology diagram of MU-BUS system for single zone network. The number of bus devices must be within 64(not including none-address devices,e.g. gateway, power supply and coupler device etc.).The built up network method is suitable for using in small regions, e.g. exhibition hall, conference room, museum, villa, etc.

设计说明：

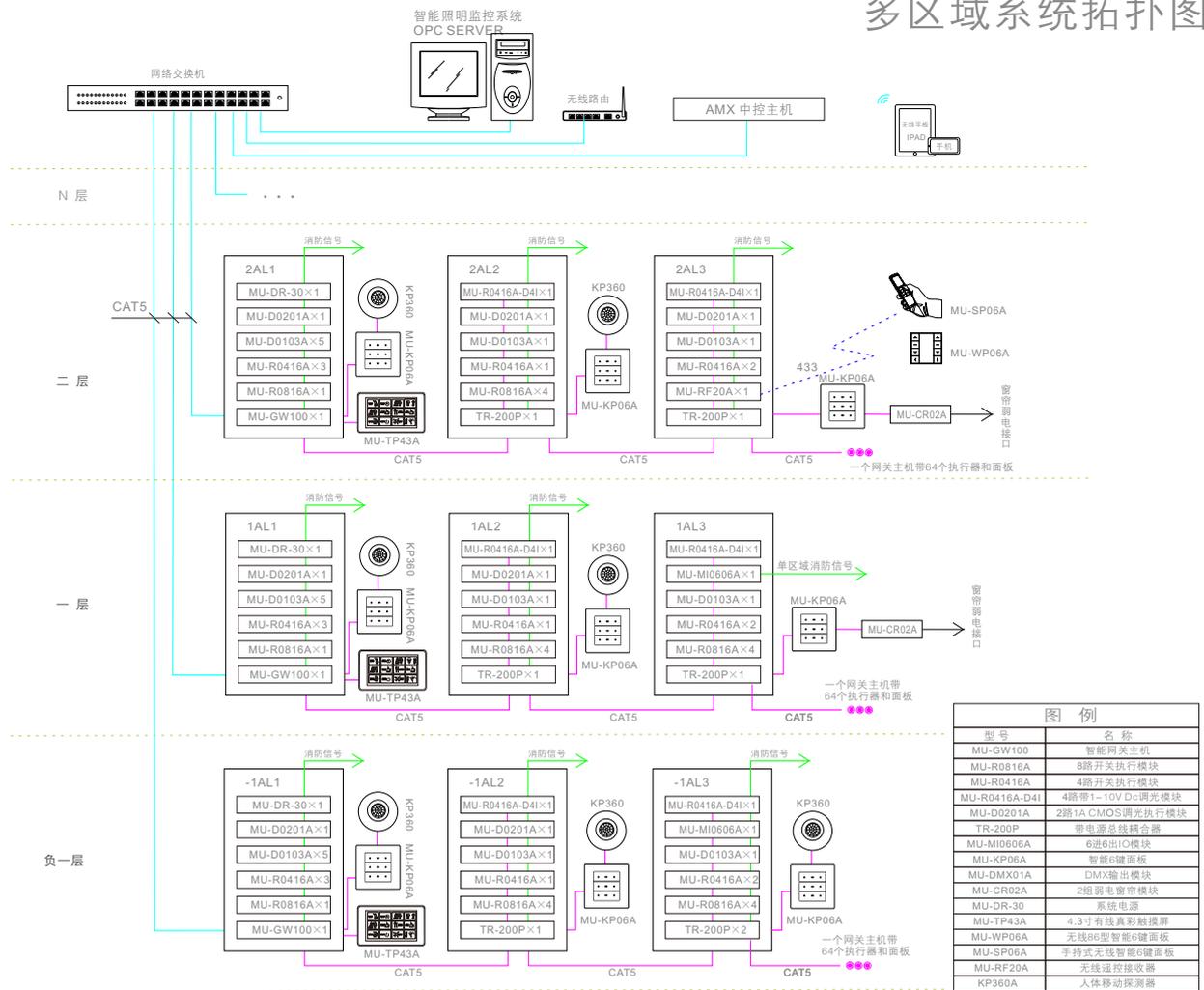
- 1) 配电箱内配各种驱动模块，采用DIN导轨安装方式；面板采用标准86底盒安装；感应器采用吸顶或是嵌入式安装；
- 2) 同一层内设备采用5类网线手拉手相连接成一条总线，总线电源用棕色棕白一对，地线用蓝蓝白一对，信号用一对线A用橙白，B用橙色；
- 3) 离监控中心较近的楼层配置网关主机，其它每层配置总线耦合器；
- 4) 控制中心可以设置触屏、电脑、手机等设备集中管理；
- 5) 感应器可在就近面板拉4芯线（或是网线）拉线；也可以配置8路IO模块嵌入系统；
- 6) 电源模块视模块数量配置，若相邻电箱距离不超过100米，模块数量不超过10个可2电箱配置一个电源；

Design descriptions:

- 1) Using standard DIN-Rail Installation method, each execution module can be installed in the power distribution box. Faceplate can be installed in standard 86-style bottom box.
- 2) The MU-BUS devices in the same level can be connected hand in hand via cat5e UTP. Bus power uses brown-brown white pair, ground uses blue-blue white pair, signal A uses orange white line, signal B uses orange line.
- 3) Gateway can be allocated to the floor close to monitoring center, bus couplers can be allocated to other floors.
- 4) The centralized management can be achieved via touch panel, computer, mobile phone in the control center.
- 5) The sensors can be connected to KP06A faceplate via cat5e utp, or embedded in the system via 8 channel IO module
- 6) Based on module numbers not exceeding 10, and distance between 2 adjacent electric boxes not exceeding 100m, one power supply module can be allocated in one electric box.

MULTI AREA SYSTEM TOPOLOGICAL GRAPH

多区域系统拓扑图



图例为MU-BUS总线系统拓扑图（多区域组网）示意，每个区总线设备需在64个内（不含主机、电源、耦合器等无地址设备），每个区域上层走TCP/IP协议，同一网段最多253个区，该组网方式适合大范围区域使用，如：高层办公楼公共区、主题公园等；The following illustration is a topology diagram of MU-BUS system for multiple zone network. The number of bus devices must be within 64(not including none-address devices,e.g. gateway, power supply and coupler device etc.).The upper level of each district communicated by TCP/IP protocol. The same segment is up to 253 Districts.The built up network method is suitable for using in large regions, e.g. Public area in High level office building, theme park, etc.

设计说明：

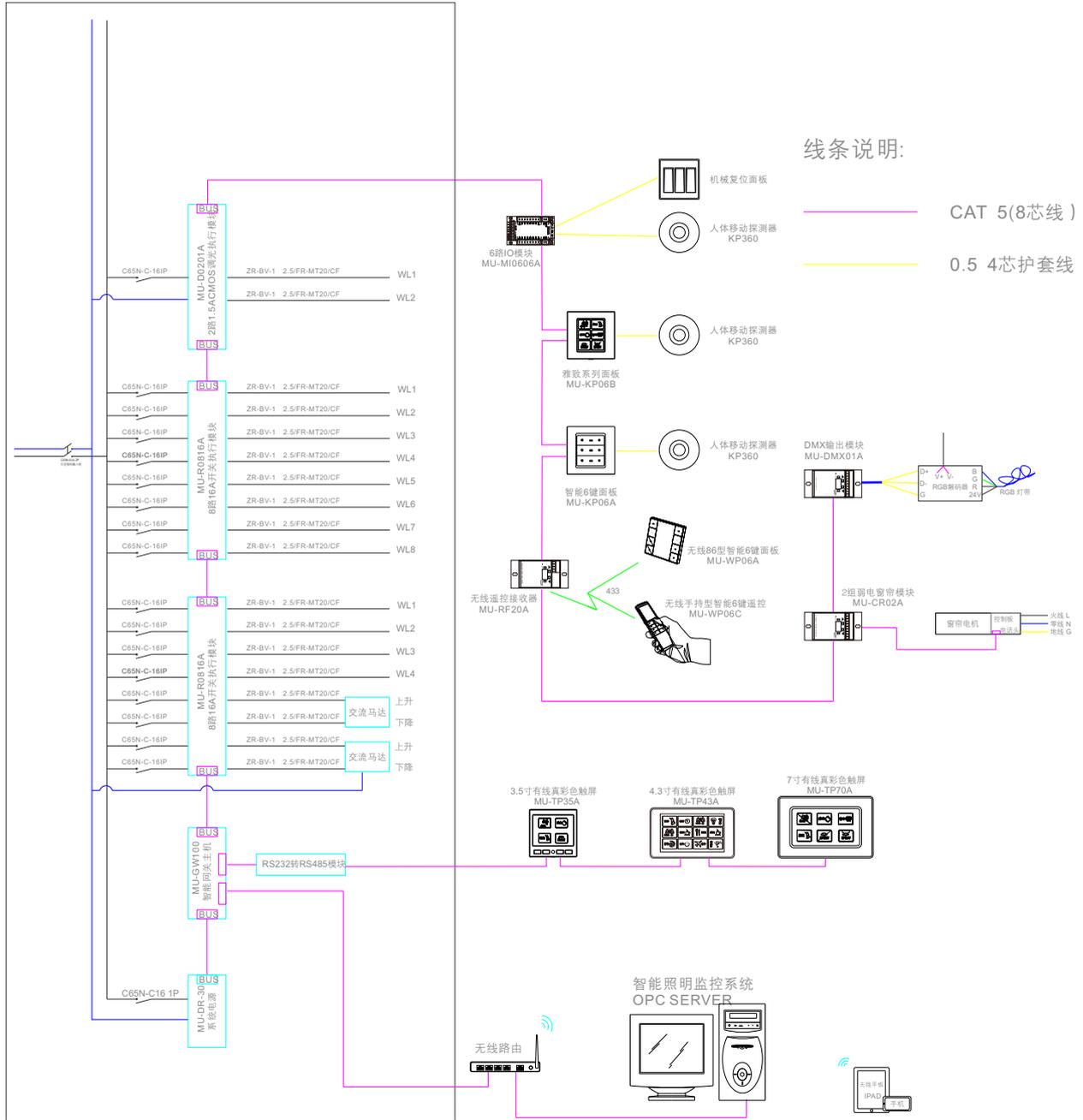
- 1) 配电箱内配各种驱动模块，采用DIN导轨安装方式；面板采用标准86底盒安装；感应器采用吸顶或是嵌入式安装；
- 2) 同一层内设备采用5类网线手拉手相连接成一条总线，总线电源用棕色棕白一对，地线用蓝蓝白一对，信号用一对线A用橙白，B用橙色；
- 3) 每个区都配置一个网关主机，箱与箱之间视距离配置总线耦合器，直接拉网线到楼层网络交换机；
- 4) 控制中心可以设置触屏、电脑、手机等设备集中管理；
- 5) 感应器可在就近面板拉4芯线（或是网线）拉线；也可以配置8路IO模块嵌入系统；
- 6) 电源模块视模块数量配置，若相邻电箱距离不超100米，模块数量不超过10个可2电箱配置一个电源，网关耦合器模块可以给8个设备正常供电，也可与电源并联供电；

Design descriptions:

- 1) Using standard DIN-Rail Installation method, each execution module can be installed in the power distribution box. Faceplate can be installed in standard 86-style bottom box.
- 2) The MU-BUS devices in the same level can be connected hand in hand via cat5e UTP. Bus power uses brown-brown white pair, ground uses blueblue white pair, signal A uses orange white line, signal B uses orange line.
- 3) A Gateway can be allocated in each area. Bus coupler can be allocated based on the distance between two distributed boxes. The gateway can be connected to floor switch via cat5e utp.
- 4) The centralized management can be achieved via touch panel, computer, mobile phone in the control center.
- 5) The sensors can be connected to KP06A faceplate via cat5eutp, or embedded in the system via 8 channel IO module
- 6) Based on the number of module not exceeding 10, each power supply module can service for 2 distribution boxes. The distance between these two adjacent boxes is not more than 100 meters. The coupler module can supply power for 8 bus devices and parallel supply power with power supply module.

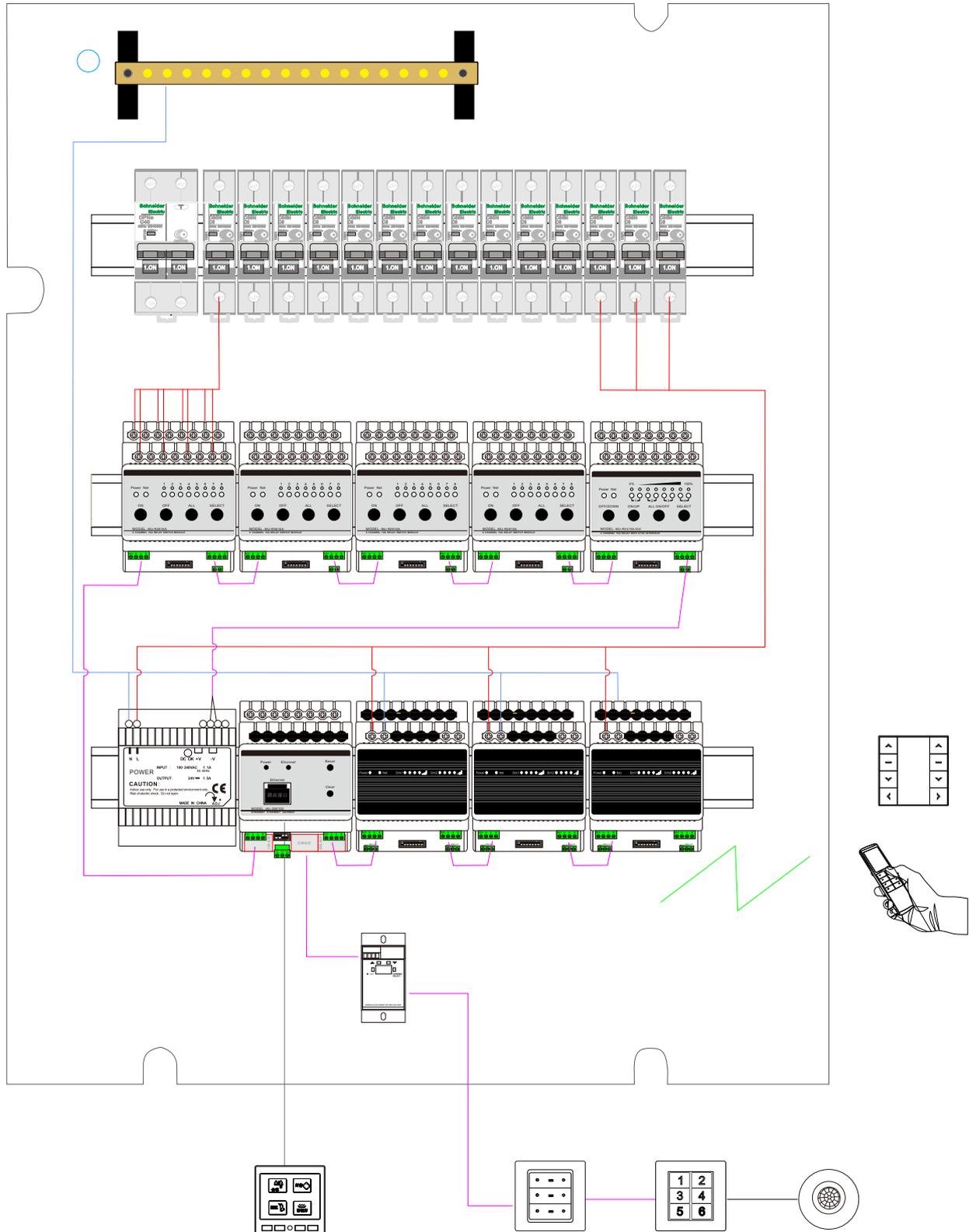
SYSTEM ELECTRICAL DIAGRAM

系统电气图



ELECTRIC BOX LAYOUT

电箱布局图



MASTER MODULE

主控机类模块

智能网关主机 DIN-RAIL MOUNTED INTELLIGENT GATEWAY



MU-GW2000

性能特点：

- 标准35mm导轨式安装，占4个模数位；
- 支持在线更新底层程序；
- 2组MU-BUS总线支持63个终端设备；
- 自主研发的MU-BUS总线，可自动识别在线设备，自动检测设备故障，为工程安装及以后的检修带来极大方便；面板与执行的关联采用列表形式，免去编程的麻烦，普通电工即可胜任；首家采用主从式与分布式结合总线架构，即使主机出现故障，面板也能控制终端设备，避免主机死机后开不了灯的情况，使系统更加稳定可靠；
- 主机通过网络与IPAD、Andriod触屏组成强大的控制系统；
- 主机数据可导入导出，避免重复工作；
- 通过网口可本地或远程下载数据；

性能描述：

自主研发的MU-BUS总线，可自动识别在线设备自动检测设备故障，为工程安装及后的检修带来极大方便；面板与执行的关联采用列表形式，免去编程的麻烦，普通电工即可胜任；

Performance Description

MU-BUS,with independent intellectual property protocol ,can automatically identify online devices and detect device failure, which is convenient for the installation and maintenance of the project .The association between faceplate and execution adopts list form ,which is free from the trouble of programming .General electrician can be competent for engineering configuration.

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- Online upgrade Bottom program function is available;
- 2 groups of MU-BUS support 63 ID devices;
- MU-BUS,with independent intellectual property protocol ,can automatically identify online devices and detect device failure ,which is convenient for the installation and maintenance of the project .The association between faceplate and execution adopts list form ,which is free from the trouble of programming .General electrician can be competent for engineering configuration;
- Gateway combined with IPAD , Andriod touch panel through wifi ,can form a powerful control system;
- Gateway's data can be imported and exported to avoid duplication of work;
- Through Ethernet port ,data of local or remote download function is available;

MU-GW2000

智能网关主机

技术参数:

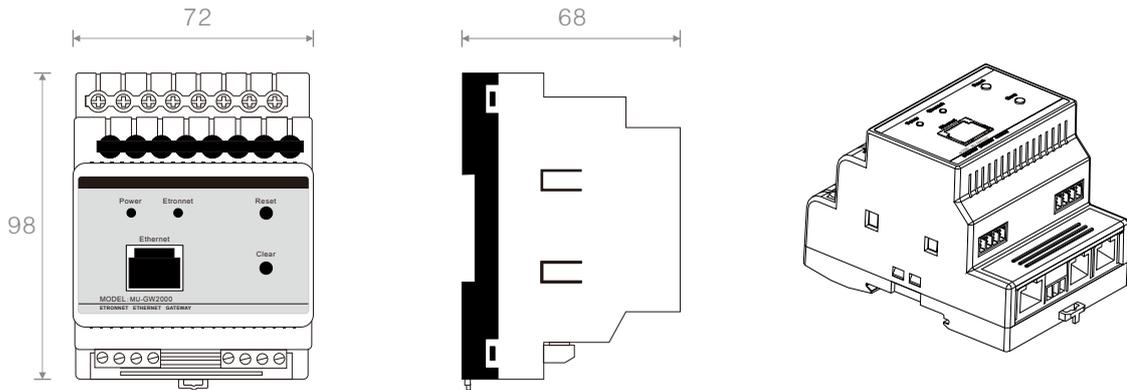
- 供电电源: DC 24V;
- 控制接口: 2×MU-BUS(即为1个级联接口, 1个面板接口);
- 网络接口: 2×RJ45网口带灯(两个只能使用其中一个);
- 级联接口: 1×RJ45网口带灯;
- 面板接口: 1×RJ45网口带灯;
- LED显示: 电源×1, 总线状态×1;
- 连接设备: 支持63个MU-BUS设备;
- 指示灯: 1×电源, 1×MU-BUS信号指示;
- 外置按键: 1×Reset复位键, 1×Clear数据清除键;
- 工程下载: 网口下载×1;
- 运行温度/湿度: 0°C~45°C/ 20%~93%RH;
- 储存温度/湿度: -40°C~+55°C/ 10%~93%RH;
- 外观尺寸: 72mm(L)×98mm(W)×68mm(H);
- 重量: 194g/pcs;

Technical Parameters

- Power Supply:DC24V;
- Control Interface:2×MU-BUS;
- Ethernet Interface:1×RJ45 with indicator light;
- Cascaded Interface:1×RJ45 with indicator light;
- Faceplate Interface:1×RJ45 with indicator light;
- LED Indication : Power supply×1, Ethernet×1, Bus Status×1;
- Number of device connections:Suport 63 MU-BUS devices;
- Indication Light:1×power Supply, 1×MU-BUS Signal Indication!;
- External Key:1×Reset Key, 1×Data clear Key;
- Engineering Download port:RJ45×1;
- Working Temp/Relative Humidity: 0°C~45°C/ 20%~93%RH;
- Storage Temp/Relative Humidity: -40°C~+55°C/ 10%~93%RH;
- Dimension: 72mm(L)×98mm(w)×68mm(H);
- Weight: 194g/PCS;

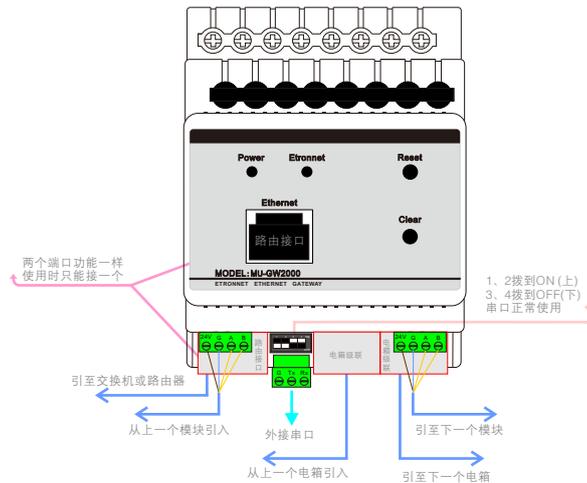
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



RELAY SWITCH MODULE

开关执行类模块

8路16A开关执行模块 8 CHANNEL 16A RELAY SWITCH MODULE



MU-R0816A

性能描述：

本产品为导轨式安装，含8路智能继电器，每回路可独立控制3520W灯具的开关，带应急按键，LED灯实时指示各个回路开关状态，可设置为互锁控制4组窗帘开合。

Performance Description

The product is installed in the standard 35mm DIN-Rail. It has 8 channel intelligent relays. Each channel can independently control lamp's switch which maximum power consumption is up to 3520W. It has emergency keys. LED indicator lights can indicate the real time switch state of each channel. The module can be set to the interlock control mode to control 4 groups of curtain.

性能特点：

- 标准导轨式安装，占4个模数位；
- 提供8路16A继电器开关，每回路可独立控制3520W设备开关；
- 可设置各回路的开机初始值；
- 具备多回路顺序延时启动功能，避免同时启动造成对电网的冲击；
- 设置两组互锁模式，能控制4组窗帘；
- 设置3互锁模式，能控制两台中央空调的低速、中速和高速档位；
- 执行场景命令后立即向监控中心返回各个回路的实际开关状态；
- 具有本机及远程编程、测试功能；
- 自带应急开关按键，方便调试；
- 自带回路状态指示灯，开关状态一目了然；
- 支持在线刷新程序；
- 采用MU-BUS总线通信；

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation: 4P (per P: 18mm)];
- With TYCO double contact relay, the module has 8 channel 16A relay switch. Each channel can independently control device's switch which maximum power consumption is up to 3520W;
- Can set up the initial value of each channel;
- Has function of sequent delay starting for multi channel. Avoid the impact to the power grid caused by Simultaneous Starting;
- Can control 4 sets of curtains by setting up two groups of interlocking mode;
- Can immediately feedback the actual switch state of each channel after executing the scene command;
- Has local or remote programming, testing function;
- Be convenient to test with emergency switch button;
- With indication light of channel status, status of switch will be very clear;
- Online refreshing program function is available;
- Communicated by MU-BUS ;

MU-R0816A

8路16A开关执行模块

技术参数:

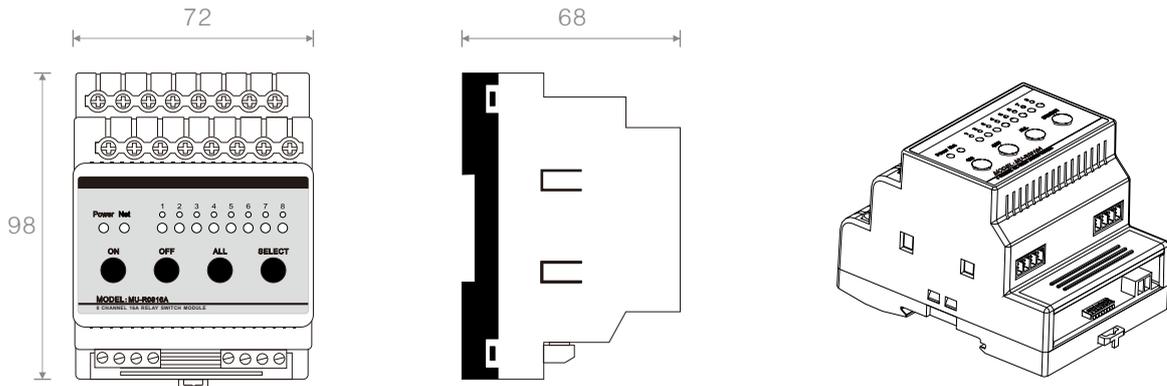
- 供电电压: DC 24V;
- 受控回路: 8路继电器开关或是4组窗帘;
- 继电器回路开关负载 (阻性): AC 250V / 抗浪涌能力达到170A以上;
- 继电器最大切换电流: 16A;
- 继电器机械耐久性: 10,000,000次;
- 继电器电耐久性: 100,000次;
- 静功率消耗: 0.4W;
- 最大功耗: 2.2W;
- 控制端口: 2 × MU-BUS;
- 网络连接设备最大数量: 63个;
- 外观尺寸: 72mm(L) × 98mm(W) × 68mm(H);
- 重量: 316g/pcs;

Technical Parameters

- Power Supply: Dc24v 90mA;
- Controlled circuit: 8 channel relay switch or 4 groups of curtain;
- Relay circuit switching load (resistive) AC 250V/ Anti surge capacity can reach more than 170A;
- Maximum current in each channel: 16A;
- Mechanical Lifetime > 10,000,000;
- Electrical Lifetime > 100,000;
- Static Power Consumption: 0.5W;
- Maximum Power Consumption: 8W;
- Control Interface: 2xMU-BUS;
- Number of device connections: 64;
- Working Temp/Relative Humidity : 0°C ~ 45°C / 20% ~ 93%RH;
- Storage Temp/Relative Humidity : -40°C ~ +55°C / 10% ~ 93%RH;
- Dimension : 72mm (L) × 98mm (w) × 68mm (H) ;
- Weight : 316g/PCS;

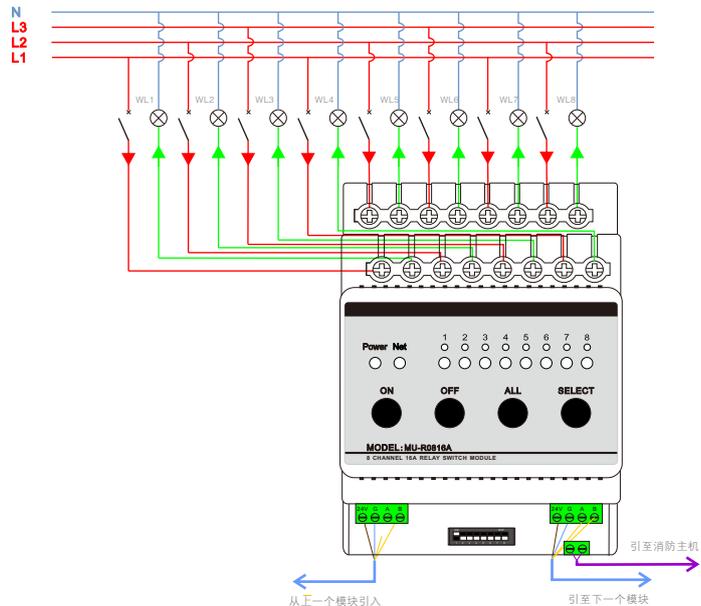
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



RELAY SWITCH MODULE

开关执行类模块

4路16A开关执行模块 4 CHANNEL 16A RELAY SWITCH MODULE



MU-R0416A

性能描述：

本产品为导轨式安装，含4路智能继电器每回路可独立控制3520W灯具的开关，带应急按键，LED灯实时指示各个回路开关状态；

Performance Description

The product is installed in the standard 35mm DIN-Rail. It has 4 channel intelligent relays. Each channel can independently control lamp's switch which maximum power consumption is up to 3520W. It has emergency keys. LED indicator lights can indicate the real times switch state of each channel.

性能特点：

- 标准导轨式安装，占4个模数位；
- 提供4路16A继电器开关，每回路可独立控制3520W设备开关；
- 可设置各回路的开机初始值；
- 具备多回路顺序延时启动功能，避免同时启动造成对电网的冲击；
- 执行场景命令后立即向监控中心返回各个回路的实际开关状态；
- 具有本机及远程编程、测试功能；
- 自带应急开关按键，方便调试；
- 自带回路状态指示灯，开关状态一目了然；
- 支持在线刷新程序；
- 采用MU-BUS总线通信

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- With TYCO double contact relay, the module Has 4 channel 16A relay switch. Each channel can independently control device's switch which maximum power consumption is up to 3520W;
- Can set up the initial value of each channel;
- Has function of sequent delay starting for multi channel. Avoid the impact to the power grid caused by Simultaneous Starting;
- Can control 2 sets of curtains by setting up two groups of interlocking mode;
- Can immediately feedback the actual switch state of each channel after executing the scene command;
- Has local or remote programming, testing function;
- Be convenient to test with emergency switch button;
- With indication light of channel status, status of switch will be very clear;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-R0416A

4路16A开关执行模块

技术参数:

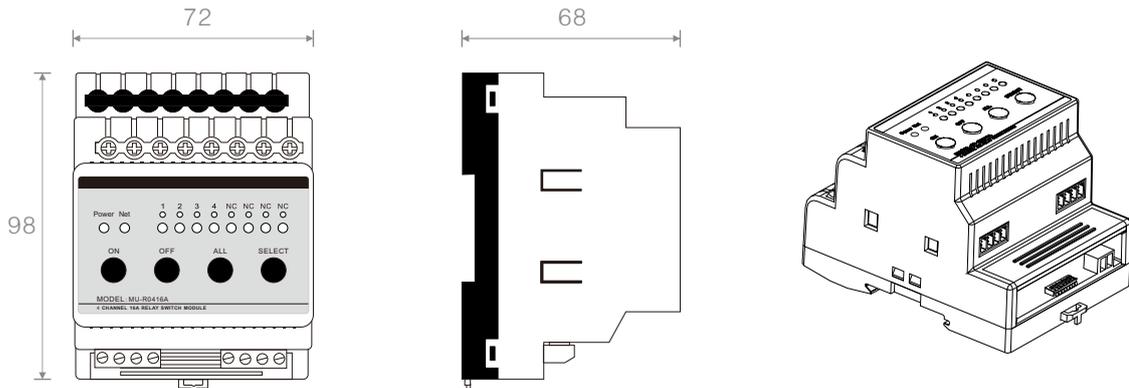
- 供电电压: DC 24V;
- 受控回路: 4路继电器开关;
- 继电器回路开关负载 (阻性): AC 250V / 抗浪涌能力达到170A以上;
- 继电器最大切换电流: 16A;
- 继电器机械耐久性: 10,000,000次;
- 继电器电耐久性: 100,000次;
- 静功率消耗: 0.4W;
- 最大功耗: 1.3W;
- 控制端口: 2 × MU-BUS;
- 网络连接设备最大数量: 63个;
- 观尺寸: 72mm(L) × 98mm(W) × 68mm(H);
- 重量: 241g/pcs

Technical Parameters

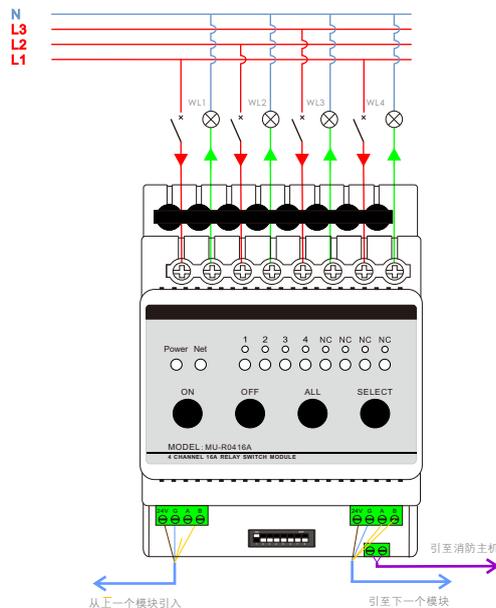
- Power Supply: Dc24v;
- Controlled circuit: 4 channel relay switch or 2 groups of curtain;
- Relay circuit switching load (resistive) AC 250V/ Anti surge capacity can reach more than 170A;
- Maximum current in each channel: 16A;
- Mechanical Lifetime > 10,000,000;
- Electrical Lifetime > 100,000;
- Static Power Consumption: 0.5W;
- Maximum Power Consumption: 8W;
- Control Interface: 2xMU-BUS;
- Number of device connections: 64;
- Working Temp/Relative Humidity : 0°C ~ 45°C / 20% ~ 93%RH;
- Storage Temp/Relative Humidity : -40°C ~ +55°C / 10% ~ 93%RH;
- Dimension : 72mm (L) × 98mm (w) × 68mm (H) ;
- Weight : 241g/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



RELAY SWITCH MODULE

开关执行类模块

4路16A开关执行模块(带4路0-10V调光接口)

4 CHANNEL 16A SWITCH MODULE WITH 4 WAYS OF 0-10V DIMMER INTERFACE



MU-R0416A-D4I

性能描述：

本产品为导轨式安装，含4路智能继电器可独立控制4路3520W灯具的开关，4路0-10V调光接口配合0-10V调光变压器可对日光灯、LED灯等灯具调光；

Performance Description

The product is installed in the standard 35mm DIN-Rail. It has 4 channel intelligent relays. Each channel can independently control lamp's switch which maximum power consumption is up to 3520W. 4 ways of 0-10V dimming interface matched with 0-10V dimming transformer can be used for the dimming of fluorescent lamps, LED lamps, etc;

性能特点：

- 标准导轨式安装占4个模数位；
- 提供4路16A继电器开关和4路0-10V调光信号；
- 可设置各回路的开机初始值(模块开关，调光亮度值)；
- 具有手动控制按钮，在网络故障时可手动控制回路的开关；
- 执行场景命令后立即向监控中心反馈各个回路的实际开关状态；
- 调光接口具有 ± 2 kV的ESD保护功能，具有短路保护，过流保护功能；
- 调光精度有3600级，0%-100% 100级调光，可根据灯具类型设置相应的调光曲线，实现真正的线性调光；
- 继电器具备手拨开关，即使模块断电也可手动闭合继电器；
- 支持在线刷新程序；
- 采用MU-BUS总线通信；

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- Has 4 channel 16A relay switch and 4 ways of 0-10V dimmer interface;
- Can set up the initial value of each channel(relay switch status and dimmer brightness value);
- Has function of sequent delay starting for multi channel. Avoid the impact to the power grid caused by Simultaneous Starting;
- Has manual control button,can manually control the switch of each channel in the event of network failure;
- Can immediately feedback the actual switch state of each channel after executing the scene command;
- Has local or remote programming,testing function;
- The dimmer interface has ± 2 kV ESD protection, short circuit protection, over current protection functions;
- There are 3600 levels of dimming precision.The product has 100 levels of dimming from 0% to 100%. It can achieve true linear dimming by setting up corresponding dimmer curve according to actual type of lighting lamp;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-R0416A-D4I

4路16A开关执行模块(带4路0-10V调光接口)

技术参数:

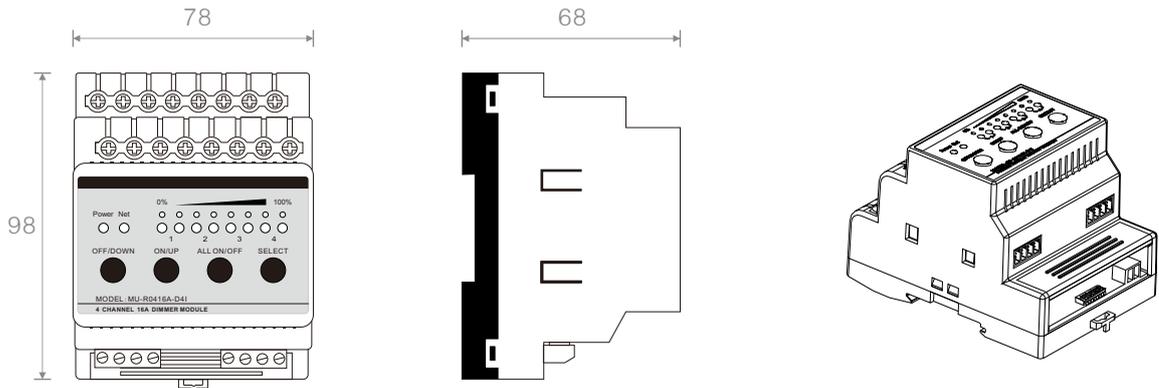
- 供电电压: DC24V;
- 受控回路: 4路继电器开关, 4路0-10V调光接口;
- 继电器回路开关负载 (阻性): AC 250V / 抗浪涌能力达到170A以上;
- 继电器最大切换电流: 16A;
- 继电器机械耐久性: 10,000,000次;
- 继电器电耐久性: 100,000次;
- 调光参数: 4 × 40mA电流;
- 静功率消耗: 1W ;
- 最大功耗: 2.5W;
- 控制端口: 2 × MU-BUS;
- 网络连接设备最大数量: 63个;
- 外观尺寸: 72mm(L) × 98mm(W) × 68mm(H);
- 重量: 264g/pcs

Technical Parameters

- Power Supply: Dc24v 90mA;
- Controlled circuit:4 channel relay switch and 4 ways of 0-10V dimmer interface;
- Relay circuit switching load (resistive) AC 250V/ Anti surge capacity can reach more than 170A;
- Maximum current in each channel:16A;
- Dimmer parameter:4×40mA;
- Mechanical Lifetime>10,000,000;
- Electrical Lifetime>100,000;
- Static Power Consumption:0.5W;
- Maximum Power Consumption:8W;
- Control Interface:2xMU-BUS;
- Number of device connections: 64;
- Working Temp/Relative Humidity : 0°C ~45°C/
20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/
10%~93%RH;
- Dimension : 72mm (L) ×98mm (w) ×68mm (H) ;
- Weight : 264g/PCS;

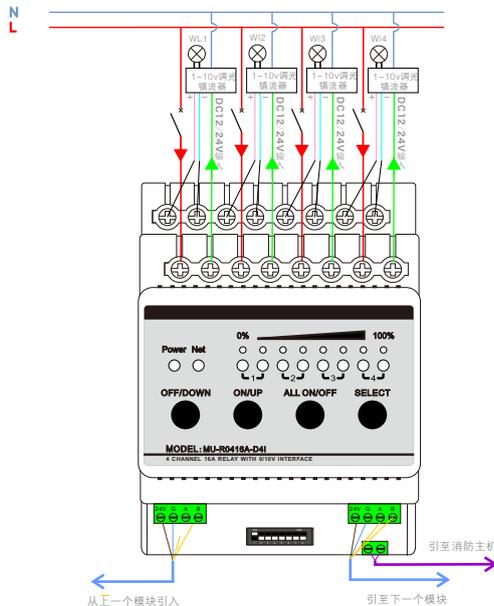
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



RELAY SWITCH MODULE

开关执行类模块

4路20A开关执行模块 4 CHANNEL 20A RELAY SWITCH MODULE



MU-R0420A

性能描述：

本产品为导轨式安装，含4路智能继电器，每回路可独立控制4400W灯具的开关，带强切功能和互锁功能。

Performance Description

The product is installed in the standard 35mm DIN-Rail. It has 4 channel intelligent relays. Each channel can independently control lamp's switch which maximum power consumption is up to 4400W. It has manual cutting-off function and interlocking function.

性能特点：

- 标准导轨式安装占4个模数位；
- 提供4路20A继电器开关，每回路可独立控制4400W设备开关；
- 可设置各回路的开机初始值；
- 具备多回路顺序延时启动功能，避免同时启动造成对电网的冲击；
- 执行场景命令后立即向监控中心返回各个回路的实际开关状态；
- 具有本机及远程编程、测试功能；
- 具备手拨开关，即使模块断电也可手动闭合继电器；支持在线刷新程序；
- 采用MU-BUS总线通信

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation: 4P(per P: 18mm)];
- With TYCO double contact relay, the module has 4 channel 20A relay switch. Each channel can independently control device's switch which maximum power consumption is up to 4400W;
- Can set up the initial value of each channel;
- Has function of sequent delay starting for multi channel. Avoid the impact to the power grid caused by Simultaneous Starting;
- Can control 4 sets of curtains by setting up two groups of interlocking mode;
- Can immediately feedback the actual switch state of each channel after executing the scene command;
- Has local or remote programming, testing function;
- Be convenient to test with emergency switch button;
- With indication light of channel status, status of switch will be very clear;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-R0420A

4路20A开关执行模块

技术参数:

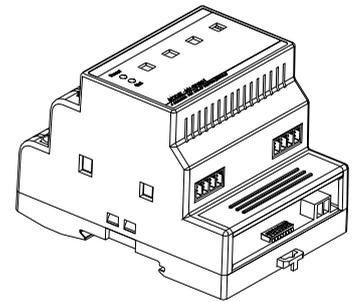
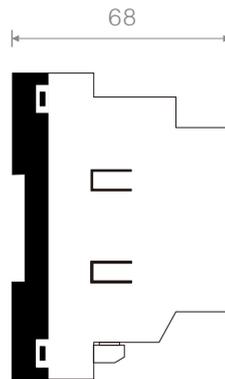
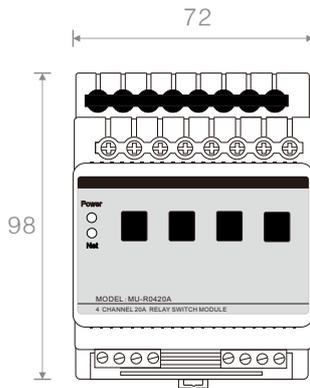
- 供电电压: DC 24V;
- 受控回路: 4路继电器开关;
- 继电器回路开关负载 (阻性): AC 250V / 抗浪涌能力达到170A以上;
- 继电器最大切换电流: 20A;
- 继电器机械耐久性: 10,000,000次;
- 继电器电耐久性: 100,000次;
- 静功率消耗: 0.4W;
- 最大功耗: 3.2W;
- 运行温度/湿度: 0°C ~ 45°C/20% ~ 93%RH;
- 储存温度/湿度: -40°C ~ +55°C/10% ~ 93%RH;
- 控制端口: 2 × MU-BUS;
- 外观尺寸: 72mm(L) × 98mm(W) × 68mm(H);
- 重量: 282g/pcs

Technical Parameters

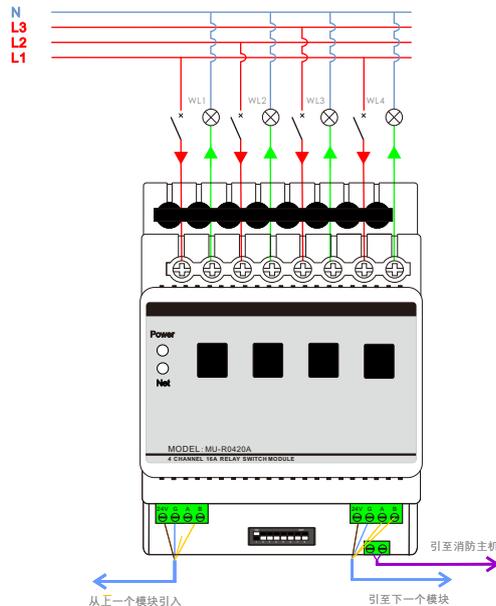
- Power Supply: Dc24v 90mA;
- Controlled circuit:4 channel relay switch ;
- Relay circuit switching load (resistive) AC 250V/ Anti surge capacity can reach more than 170A;
- Maximum current in each channel:20A;
- Mechanical Lifetime>10,000,000;
- Electrical Lifetime>100,000;
- Static Power Consumption:1.5W;
- Maximum Power Consumption:9W;
- Control Interface:2×MU-BUS;
- Number of device connections:64 ;
- Working Temp/Relative Humidity : 0°C ~45°C/ 20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/ 10%~93%RH;
- Dimension : 72mm (L) × 98mm (w) × 68mm (H) ;
- Weight : 282g/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



DIMMER MODULE

调光执行类模块

2路1.5A 后沿CMOS调光执行模块 2 CHANNEL 1.5A CMOS DIMMER MODULE



MU-D0210A

性能描述：

本产品为导轨式安装，提供两路330W功率可对LED射灯、筒灯和卤素灯等的电压调光，输出调光类型后沿调光，带过载、短路保护大大加强了产品的稳定性；

Performance Description

The product is installed in the standard 35 mm DIN-Rail. It supplies 2 channel dimmer, each channel has 330W capacity. It can achieve the dimming of the voltage of LED spotlight, down light, halogen lamp and so on. The output dimmer type is back edge dimming. Stability of the product can be greatly enhanced with the overload, and short circuit protection function;

性能特点：

- 标准导轨式安装占12个模式位；
- LED状态指示灯显示当前回路状态；
- 具有2个独立回路,每路最大提供10A即2200W；
- 提供2路外置按键接口；
- 每个回路具有低端限幅、高端限幅、最大限幅以适应不同的负载；
- 设备重启可自定义每路开机状态值；
- 每个回路具有独立的标示，标示名称存储在模块里面；
- 具有过温保护功能；
- 支持在线刷新程序；
- 采用MU-BUS总线通信；

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- LED status indicator lamp indicates current channel status;
- Has 2 independent channel, each channel supply maximum 330w capacity;
- With large size emergency buttons, easy to operate;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Has two way MU-BUS interface, with MU-BUS Bus Communication;
- Can customize initial status value of each channel after restarting the module;
- Each channel has its independent label which name is stored in the module;
- Has the function of temperature monitoring, short circuit and overload protection
- Double MOS tube back edge sine wave dimmer;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-D0201A

2路1.5A后沿CMOS调光执行模块

技术参数:

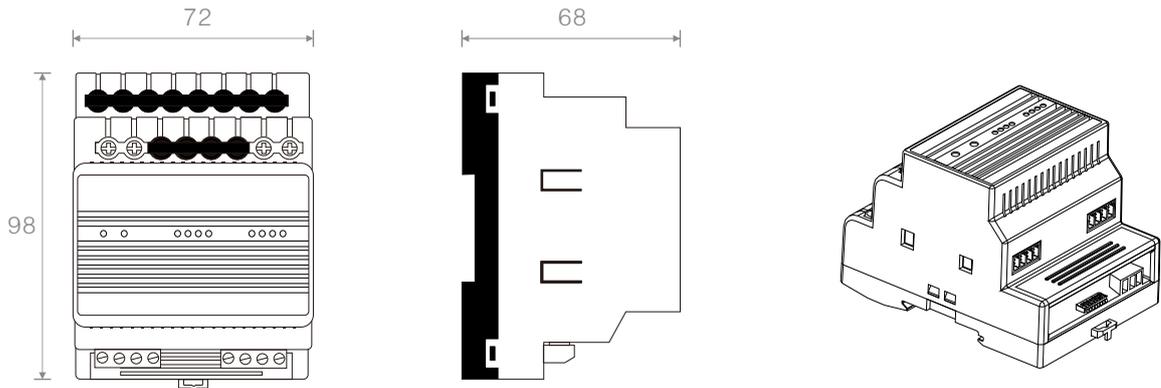
- 负载输入电压: AC 220V ± 10%;
- 设备供电输入: DC 24V;
- 输出回路: 2路后沿MOS管调光;
- 控制信号: 2 × MU-BUS总线;
- 每回路输出功率: 2 × 330W;
- 静功率消耗: 0.3W;
- 最大功耗: 0.4W;
- 保护: 需外接断路器;
- 安装方式: 标准35mm导轨式安装结构;
- 运行温度/湿度: 0°C ~ 45°C/ 20% ~ 93% RH;
- 储存温度/湿度: -40°C ~ +55°C/ 10% ~ 93% RH;
- 外观尺寸: 72mm(L) × 98mm(W) × 68mm(H);
- 重量: 268g/pcs

Technical Parameters

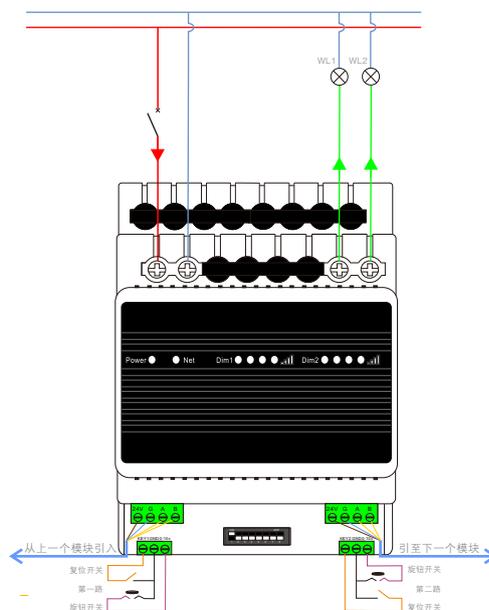
- Power Supply: Dc24v 90mA;
- Load's input voltage: AC220V±10% ;
- Power supply for the module:DC24V 125mA;
- Output channel: 2 channel back edge CMOS dimmer;
- Control signal:2×MU-BUS;
- Output power of each channel:330W;
- Protection:need to connect circuit breaker;
- Working Temp/Relative Humidity : 0°C ~45°C/ 20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/ 10%~93%RH;
- Dimension : 72mm (L) ×98mm (w) ×68mm (H) ;
- Weight : 268g/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



DIMMER MODULE

调光执行类模块

1路3A 后沿CMOS调光执行模块 1 CHANNEL 3A CMOS DIMMER MODULE



MU-D0103A

性能描述：

本产品为导轨式安装，提供1路660W功率，可对LED射灯、筒灯和卤素灯等进行电压调光，输出调光类型为后沿调光，带过载、短路保护，大大加强了产品的稳定性；

Performance Description

The product is installed in the standard 35 mm DIN-Rail. It supplies 1 channel dimmer of 660W capacity. It can achieve the dimming of the voltage of LED spotlight, down light, halogen lamp and so on. The output dimmer type is back edge dimming. Stability of the product can be greatly enhanced with the overload, and short circuit protection function;

性能特点：

- 标准导轨式安装占4个模式位；
- LED状态指示灯显示当前回路状态；
- 具有1个独立回路,每路最大提供660W功率；
- 采用大体积应急按键，方便操作；
- 每个回路具有低端限幅、高端限幅、最大限幅以适应不同的负载类型；
- 采用MU-BUS总线通信，提供2路MU-BUS接口；
- 设备重启可自定义每路开机状态值；
- 每个回路具有独立的标示，标示名称存储在模块里面；
- 具有过温、过载、短路保护功能；
- 支持在线刷新程序；
- 采用CMOS管后切正弦波调光；

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- LED status indicator lamp indicates current channel status;
- Has 1 independent channel, each channel supply maximum 660w capacity;
- With large size emergency buttons, easy to operate;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Has two way MU-BUS interface, with MU-BUS Bus Communication;
- Can customize in initial status value of each channel after restarting the module;
- Each channel has its independent label which name is stored in the module;
- Has the function of temperature monitoring, short circuit and overload protection
- Double MOS tube back edge sine wave dimmer;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-D0103A

1路3A后沿CMOS调光执行模块

技术参数:

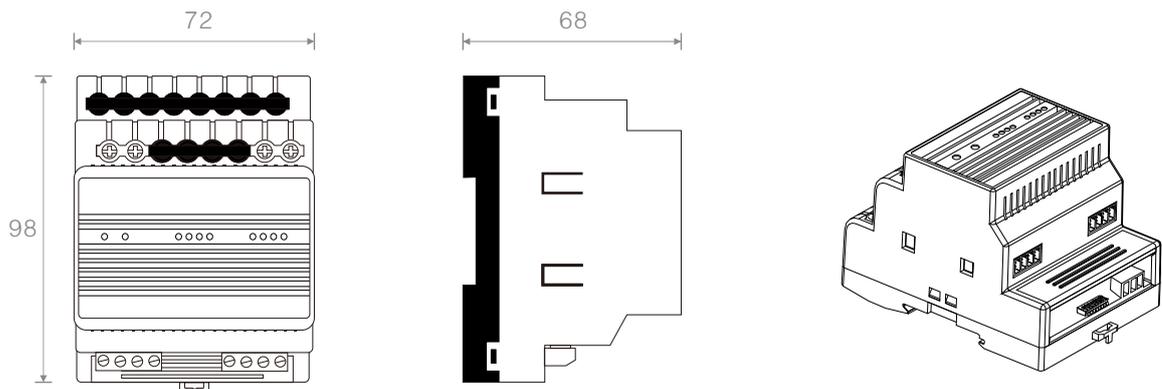
- 负载输入电压: AC 220V ± 10%;
- 设备供电输入: DC 24V;
- 输出回路: 1路后沿MOS管调光;
- 控制信号: 2 × MU-BUS总线;
- 每回路输出功率: 1 × 660W;
- 静功率消耗: 0.3W;
- 最大功耗: 0.4W;
- 保护: 需外接断路器;
- 安装方式: 标准35mm导轨式安装结构;
- 运行温度/湿度: 0°C ~ 45°C/ 20% ~ 93% RH;
- 储存温度/湿度: -40°C ~ +55°C/ 10% ~ 93%RH
- 外观尺寸: 72mm(L) × 98mm(W) × 68mm(H);
- 重量: 268g/pcs

Technical Parameters

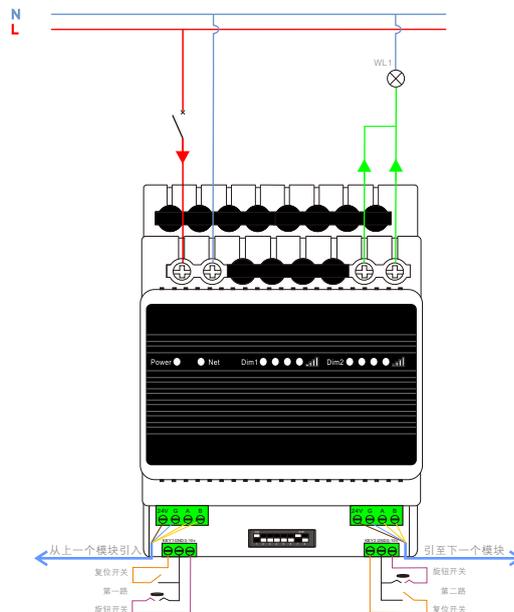
- Power Supply: Dc24v 90mA;
- Load's input voltage: AC220V±10% ;
- Power supply for the module:DC24V 125mA;
- Output channel: 1 channel back edge CMOS dimmer;
- Control signal:2×MU-BUS;
- Output power of each channel:660W;
- Protection:need to connect circuit breaker;
- Working Temp/Relative Humidity : 0°C ~45°C/ 20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/ 10%~93%RH;
- Dimension : 72mm (L) ×98mm (w) ×68mm (H) ;
- Weight : 268g/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



DIMMER MODULE

调光执行类模块

6路10A大功率调光箱 6 CHANNEL 10A HIGH-POWER DIMMER BOX



MU-D0610D

性能特点：

- 挂壁式安装；
- LED状态指示灯显示当前回路状态；
- 具有6个独立回路,每路最大提供10A即2200W；
- 提供6路外置按键接口；
- 每个回路具有低端限幅、高端限幅、最大限幅以适应不同的负载；
- 采用MU-BUS总线通信；
- 设备重启可自定义每路开机状态值；
- 每个回路具有独立的标示，标示名称存储在模块里面；
- 具有过温保护，短路器保护功能；
- 支持在线刷新程序；

性能描述：

本产品为挂壁式安装，可控制6路10A(2200W)的射灯筒灯和白炽灯等的电压调光，输出调光类型为前沿斩波调光；机箱采用轻巧型设计美观大方,带断路器保护；

Performance Description

The product is installed on the wall. It supplies 6 channel 10A front-edge dimmer. It can achieve the dimming of the voltage of spotlight, down light, filament lamp and so on. The output dimmer type is front-edge dimming. The dimmer box has Light weight design style. It is beautiful and generous. The product has Circuit breaker protection;

Performance Characteristics

- Hanging wall mounted or concealed;
- LED status indicator lamp indicates current channel status;
- Has 6 ways of external button interface ;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Each channel has its independent label which name is stored in the module;
- Has the function of temperature monitoring, short circuit protection;
- Each channel has its independent label which name is stored in the module;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-D0610D

6路10A大功率调光箱

技术参数:

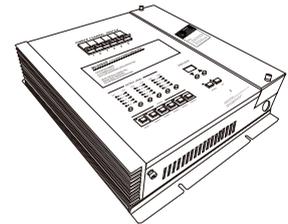
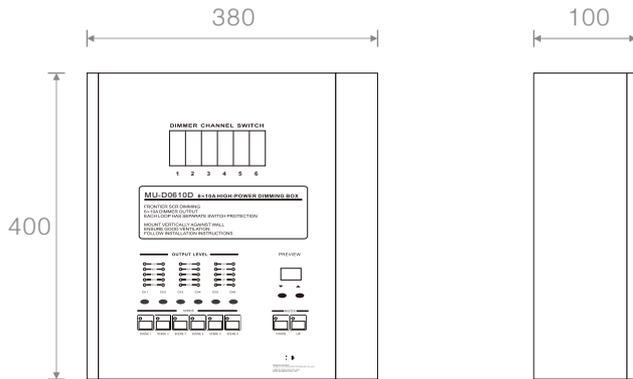
- 输入电压: 单相AC220V ± 10% 或3相AC220V;
- 设备电源输入: DC24V;
- 输出回路: 6路可控硅前沿调光;
- 控制信号: 2 × MU-BUS总线;
- 每回路输出电流: 10A;
- 保护: 自带过温和断路器保护;
- 安装方式: 挂墙式暗装或明装;
- 显示: 6 × LED灯, 1 × 3位数数码管;
- 按键: 10 × 功能键10.运行温度/湿度: 0°C ~ 45°C/ 20% ~ 93% RH
- 储存温度/湿度: -40°C ~ +55°C/ 10% ~ 93%RH
- 外观尺寸: 40cm(L) × 38cm(W) × 10cm(H)
- 重量: 6kg

Technical Parameters

- Power Supply: Dc24v 90mA;
- Input voltage: single phase AC220V ± 10% or 3 phase AC220V ;
- Output channel:6 channel controllable silicon front-edge dimmer;
- Output current of each channel:10A;
- Display: 6 x LED, 1 x 3 bit digital tube;
- Button: 10xFunction Key
- Control signal:2×MU-BUS;
- Protection: With temperature monitoring and connect circuit breaker protection;
- Working Temp/Relative Humidity : 0°C ~45°C/ 20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/ 10%~93%RH;
- Dimension : 400mm(L)×380mm(W)×100mm(H);
- Weight : 6kg/PCS;

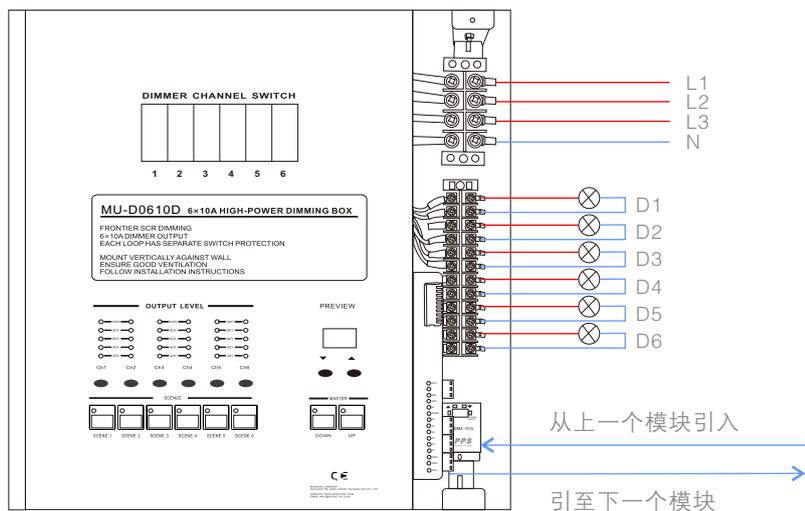
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



DIMMER MODULE

调光执行类模块

6路30A大功率调光箱 6 CHANNEL 30A HIGH-POWER DIMMER BOX



MU-D0630D

性能描述：

本产品为挂壁式安装，前沿可控硅调光；6组调光通道输出，每通道6KW；轻巧型设计美观大方。带断路器保护；

Performance Description

The product is installed on the wall. It supplies 6 channel 30A front-edge dimmer. It can achieve the dimming of the voltage of spotlight, down light, filament lamp and so on. The output dimmer type is front-edge dimming. The dimmer box has Light weight design style. It is beautiful and generous. The product has Circuit breaker protection;

性能特点：

- 挂壁式安装；
- LED状态指示灯显示当前回路状态；
- 具有6个独立回路,每路最大提供30A即6600W；
- 提供6路外置按键接口；
- 每个回路具有低端限幅、高端限幅、最大限幅以适应不同的负载；
- 采用MU-BUS总线通信；
- 设备重启可自定义每路开机状态值；
- 每个回路具有独立的标示，标示名称存储在模块里面；
- 具有过温保护，短路器保护功能；
- 支持在线刷新程序；

Performance Characteristics

- Hanging wall mounted or concealed;
- LED status indicator lamp indicates current channel status;
- Has 6 ways of external button interface;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Each channel has its independent label which name is stored in the module;
- Has the function of temperature monitoring, short circuit protection;
- Each channel has its independent label which name is stored in the module;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-D0630D

6路30A大功率调光箱

技术参数:

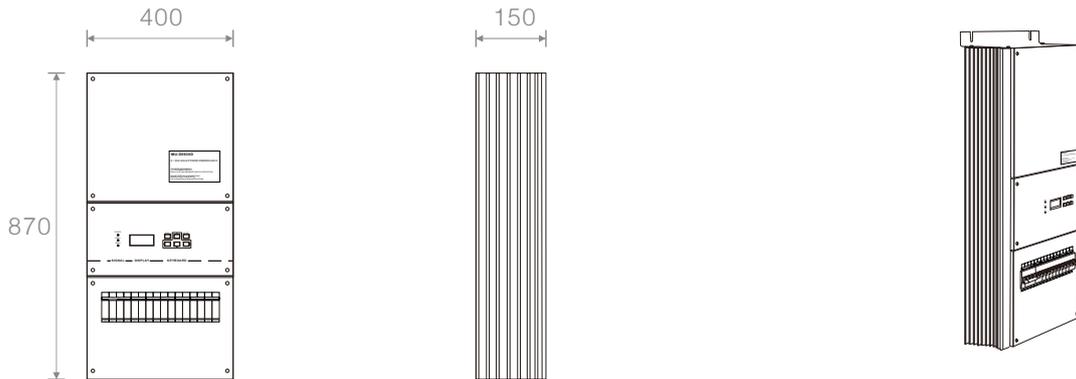
- 输入电压: 单相AC220V \pm 10% 或3相AC220V;
- 设备电源输入: DC24V;
- 输出回路: 6路可控硅前沿调光;
- 控制信号: 2 \times MU-BUS总线;
- 每回路输出电流: 30A;
- 保护: 自带过温和断路器保护;
- 安装方式: 挂墙式暗装或明装;
- 显示: 2 \times LED灯, 1 \times LED显示屏;
- 按键: 4 \times 功能键
- 运行温度/湿度: 0 $^{\circ}$ C \sim 45 $^{\circ}$ C/ 20% \sim 93%RH
- 储存温度/湿度: -40 $^{\circ}$ C \sim +55 $^{\circ}$ C/ 10% \sim 93%RH
- 外观尺寸: 87cm(L) \times 40cm(W) \times 15cm(H)
- 重量: 12kg

Technical Parameters

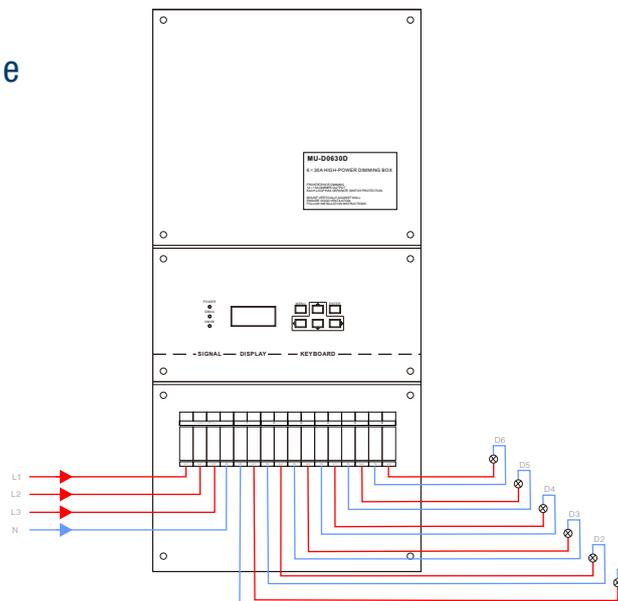
- Power Supply: Dc24v 90mA;
- Input voltage: single phase AC220V \pm 10% or 3 phase AC220V ;
- Output channel:6 channel controllable silicon front-edge dimmer;
- Output current of each channel:30A;
- Display: 3 x LED,1 x 3 bit digital tube;
- Button:6xFunction Key
- Control signal:2 \times MU-BUS;
- Protection: With temperature monitoring and connect circuit breaker protection;
- Working Temp/Relative Humidity : 0 $^{\circ}$ C \sim 45 $^{\circ}$ C/
20% \sim 93%RH;
- Storage Temp/Relative Humidity : -40 $^{\circ}$ C \sim +55 $^{\circ}$ C/
10% \sim 93%RH;
- Dimension : 870mm(L) \times 400mm(W) \times 150mm(H);
- Weight : 12kg/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



DIMMER MODULE

调光执行类模块

12路15A大功率调光箱 12 CHANNEL 15A HIGH-POWER DIMMER BOX



MU-D1215D

性能描述：

本产品为挂壁式安装，前沿可控硅调光；12组调光通道输出，每通道3300W；轻巧型设计美观大方。带断路器保护；

Performance Description

The product is installed on the wall. It supplies 12 channel 15A front-edge dimmer. It can achieve the dimming of the voltage of spotlight, down light, filament lamp and so on. The output dimmer type is front-edge dimming. The dimmer box has Light weight design style. It is beautiful and generous. The product has Circuit breaker protection;

性能特点：

- 挂壁式安装；
- LED状态指示灯显示当前回路状态；
- 具有12个独立回路,每路最大提供15A即3300W；
- 提供12路外置按键接口；
- 每个回路具有低端限幅、高端限幅、最大限幅以适应不同的负载；
- 采用MU-BUS总线通信；
- 设备重启可自定义每路开机状态值；
- 每个回路具有独立的标示，标示名称存储在模块里面；
- 具有过温保护，短路器保护功能；
- 支持在线刷新程序；

Performance Characteristics

- Hanging wall mounted or concealed;
- LED status indicator lamp indicates current channel status;
- Has 12 ways of external button interface;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Each channel has low end limitation, high end limitation, maximum limitation to adapt to different types of load ;
- Each channel has its independent label which name is stored in the module;
- Has the function of temperature monitoring, short circuit protection;
- Each channel has its independent label which name is stored in the module;
- Online refreshing program function is available;
- Communicated by MU-BUS;

MU-D1215D

12路15A大功率调光箱

技术参数:

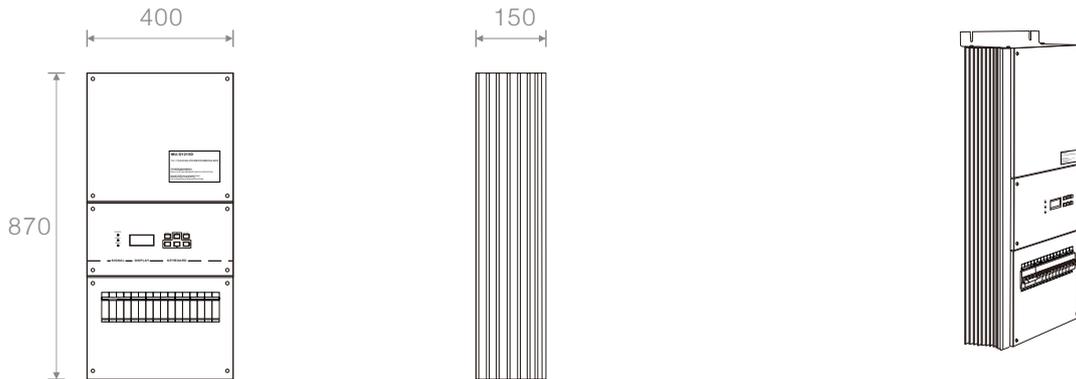
- 输入电压: 单相AC220V ± 10% 或3相AC220V;
- 设备电源输入: DC24V;
- 输出回路: 12路可控硅前沿调光;
- 控制信号: 2 × MU-BUS总线;
- 每回路输出电流: 15A;
- 保护: 自带过温和断路器保护;
- 安装方式: 挂墙式暗装或明装;
- 显示: 2 × LED灯, 1 × LED显示屏;
- 按键: 4 × 功能键
- 运行温度/湿度: 0°C ~ 45°C/ 20% ~ 93% RH
- 储存温度/湿度: -40°C ~ +55°C/ 10% ~ 93%RH
- 外观尺寸: 87cm(L) × 40cm(W) × 15cm(H)
- 重量: 14kg

Technical Parameters

- Power Supply: Dc24v 90mA;
- Input voltage: single phase AC220V±10% or 3 phase AC220V ;
- Output channel:12 channel controllible silicon front-edge dimmer;
- Output current of each channel:15A;
- Display: 3 x LED,1 x 3 bit digital tube;
- Button:6xFunction Key
- Control signal:2×MU-BUS;
- Protection: With temperature monitoring and connect circuit breaker protection;
- Working Temp/Relative Humidity : 0°C ~45°C/ 20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/ 10%~93%RH;
- Dimension : 870mm(L)×400mm(W)×150mm(H);
- Weight : 14kg/PCS;

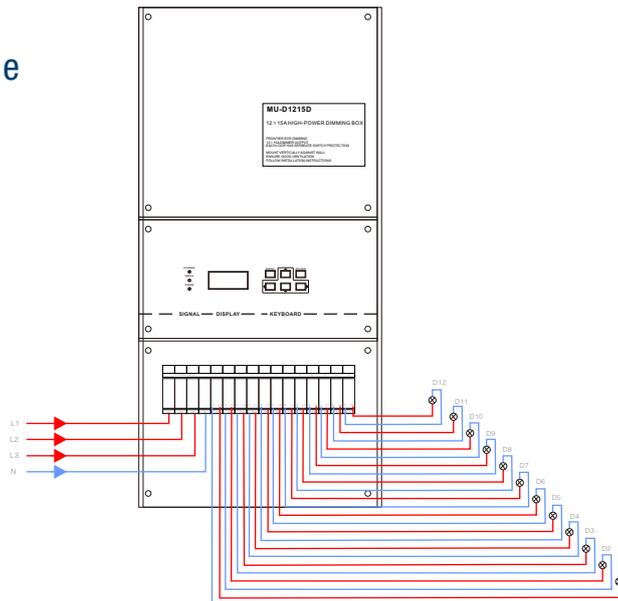
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



CONTROL PANEL MODULE

控制面板类模块

智能2键面板 2 KEYS INTELLIGENT FACEPLATE



MU-KP02C

性能特点：

- 提供2个可编程按键，图标标示可雕刻或是丝印；
- 可触发短按、短按松开、长按和长按松开按键方式；
- 提供两路远距离感应器传输输入，自带12V供电；
- 传感接口为光耦隔离，高压过流保护，具有很强的抗干扰性和可靠性；
- 标准86盒式安装，支持多个面板无缝级联；
- 标准工艺，采用塑料材质（可选黑色、灰色、香槟金色）；
- 各个按键带底色LED和激活色LED，颜色可定制；
- 采用MU-BUS总线通信；

性能描述：

标准86底盒安装，支持无缝联接，提供2键，每个按键带1路LED指示灯，复位式轻触开关，结构成熟，性能稳定，标准工艺，采用塑料材质（颜色可选黑色、灰色和香槟金）；自带感应式背光灯；提供两路IO输入可外接传感器；

Performance Description

The faceplate can be installed in the standard 86 box. It supports seamless connection. The faceplate can collocate a variety of material and colors. It provides 6 keys, each key has 1 way of LED indicator, touch reset switch. It has mature structure, high performance and stable operation. The bronze silk drawing faceplate is handled by high light and aluminum alloy stamping process. It provides two IO in-puts which can be concatenated with the external sensor; aluminum panel drawing;

Performance Characteristics

- The faceplate can be installed in the standard 86 box. Multi faceplate cascade function is available;
- Provides 6 programmable keys. Icon label can be carved or silk printed ;
- Can trigger the button modes of touch, touch and release, deep press, deep press and release ;
- Provide two ways of long distance sensor input, with 12V power;
- The sensor interface has opto- couplers isolation, high voltage over current protection. It has strong anti-interference capability and high reliability;
- The standard process, aluminum alloy stamping, high light, bronze silk drawing;
- Each key has bottom color LED and activate color LED. Color can be customized;
- Communicated by MU-BUS;

MU-KP02C

智能2键面板

技术参数:

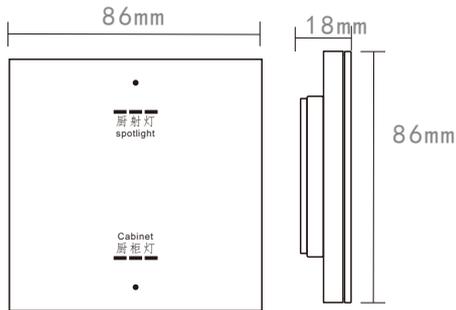
- 电气参数:
 - 供电电源: DC24V;
- 按键输入: 2个按键;
- 外观颜色: 可选黑色、灰色、香槟金色;
- 传感接口: 2个干接点开关信号;
- 按键类别: 复位轻触式;
- 控制信号: 1×Etron-Net总线;
- 安装方式: 标准86底盒;
- 静功率消耗: 0.3W;
- 最大功耗: 0.5W;
- 工作环境:
 - 运行温度/湿度: 0°C ~ 45°C/20% ~ 93% RH;
 - 储存温度/湿度: -40°C ~ +55°C/10% ~ 93% RH;
- 产品规格:
 - 外观尺寸: 86mm × 86mm × 18mm;
 - 重量: 75g/pcs;

Technical Parameters

- Power Supply: DC24V 20mA;
- Button Input: 6 button keys ;
- Appearance color: Black frame, Bronze silk drawing faceplate, color customization;
- LED indicator: 6 buttons of activate blue LED, 3 white bottom LED;
- Sensor interface: 2 dry contacts of switch signal;
- Key type: Touch reset;
- Control signal: 1×MU-BUS;
- Working Temp/Relative Humidity : 0°C ~ 45°C / 20% ~ 93%RH;
- Storage Temp/Relative Humidity : -40°C ~ +55°C / 10% ~ 93%RH;
- Dimension : 86mm(L)×86mm(W)×18mm(H);
- Weight : 75g/PCS;

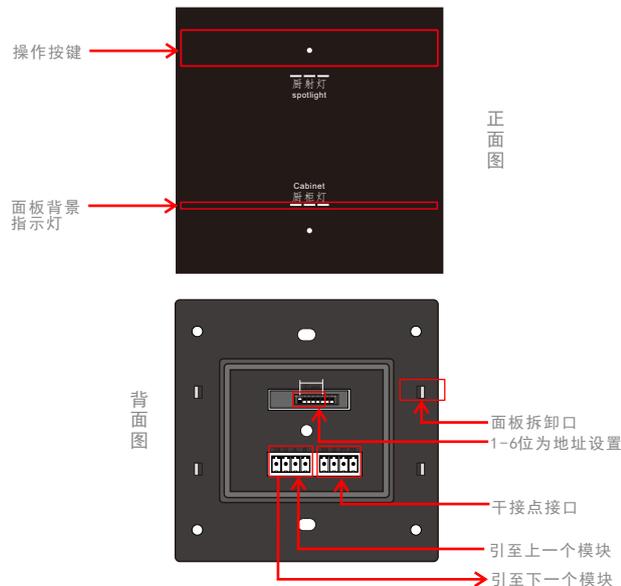
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



CONTROL PANEL MODULE

控制面板类模块

智能4键面板 4 KEYS INTELLIGENT FACEPLATE



MU-KP04C

性能特点：

- 提供4个可编程按键，图标标示可雕刻或是丝印；
- 可触发短按、短按松开、长按和长按松开按键方式；
- 提供两路远距离感应器传输输入，自带12V供电；
- 传感接口为光耦隔离，高压过流保护，具有很强的抗干扰性和可靠性；
- 标准86盒式安装，支持多个面板无缝级联；
- 标准工艺，采用塑料材质（可选黑色、灰色、香槟金色）；
- 各个按键带底色LED和激活色LED，颜色可定制；
- 采用MU-BUS总线通信；

性能描述：

标准86底盒安装，支持无缝连接，提供4键，每个按键带1路LED指示灯，复位式轻触开关，结构成熟，性能稳定，标准工艺，采用塑料材质（颜色可选黑色、灰色和香槟金）；自带感应式背光灯；提供两路IO输入可外接传感器；

Performance Description

The faceplate can be installed in the standard 86 box. It supports seamless connection. The faceplate can collocate a variety of material and colors. It provides 6 keys, each key has 1 way of LED indicator, touch reset switch. It has mature structure, high performance and stable operation. The bronze silk drawing faceplate is handled by high light and aluminum alloy stamping process. It provides two IO in-puts which can be concatenated with the external sensor; aluminum panel drawing;

Performance Characteristics

- The faceplate can be installed in the standard 86 box. Multi faceplate cascade function is available;
- Provides 6 programmable keys. Icon label can be carved or silk printed ;
- Can trigger the button modes of touch, touch and release, deep press, deep press and release ;
- Provide two ways of long distance sensor input, with 12V power;
- The sensor interface has opto- couplers isolation, high voltage over current protection. It has strong anti-interference capability and high reliability;
- The standard process, aluminum alloy stamping, high light, bronze silk drawing;
- Each key has bottom color LED and activate color LED. Color can be customized;
- Communicated by MU-BUS;

MU-KP04C

智能4键面板

技术参数:

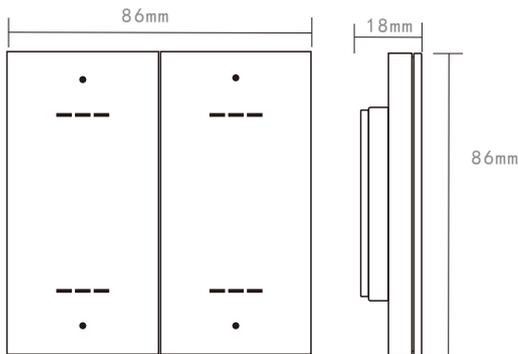
- 电气参数:
 - 供电电源: DC24V;
- 按键输入: 4个按键;
- 外观颜色: 可选黑色、灰色、香槟金色;
- 传感接口: 2个干接点开关信号;
- 按键类别: 复位轻触式;
- 控制信号: 1×Etron-Net总线;
- 安装方式: 标准86底盒;
- 静功率消耗: 0.3W;
- 最大功率: 0.5W;
- 工作环境:
 - 运行温度/湿度: 0°C ~ 45°C/20% ~ 93% RH;
 - 储存温度/湿度: -40°C ~ +55°C/10% ~ 93%RH;
- 产品规格:
 - 外观尺寸: 86mm × 86mm × 18mm;
 - 重量: 75g/pcs;

Technical Parameters

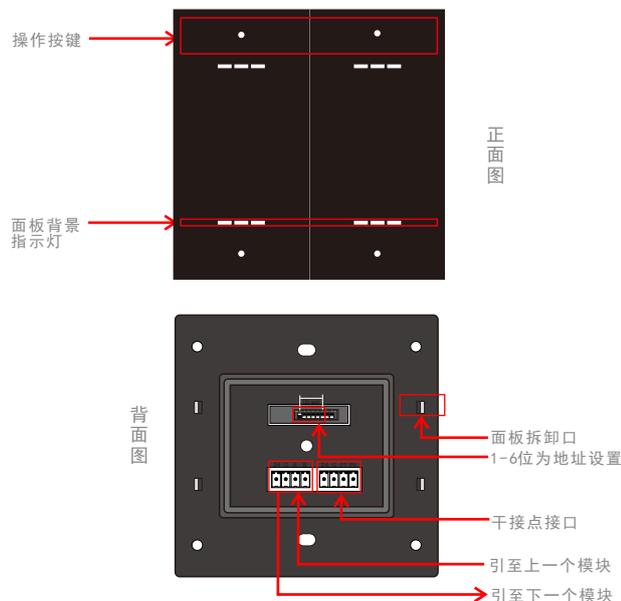
- Power Supply: DC24V 20mA;
- Button Input: 6 button keys ;
- Appearance color: Black frame, Bronze silk drawing faceplate, color customization;
- LED indicator: 6 buttons of activate blue LED, 3 white bottom LED;
- Sensor interface: 2 dry contacts of switch signal;
- Key type: Touch reset;
- Control signal: 1×MU-BUS;
- Working Temp/Relative Humidity : 0°C ~ 45°C/ 20% ~ 93%RH;
- Storage Temp/Relative Humidity : -40°C ~ +55°C/ 10% ~ 93%RH;
- Dimension : 86mm(L)×86mm(W)×18mm(H);
- Weight : 75g/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



CONTROL PANEL MODULE

控制面板类模块

智能6键面板 6 KEYS INTELLIGENT FACEPLATE



MU-KP06A

性能特点：

- 提供6个可编程按键，图标标示可雕刻或是丝印；
- 可触发短按、短按松开、长按和长按松开按键方式；
- 提供两路远距离感应器传输输入，自带12V供电；
- 传感接口为光耦隔离，高压过流保护，具有很强的抗干扰性和可靠性；
- 标准86盒式安装，支持多个面板无缝级联；
- 标准工艺，采用塑料材质（可选黑色、灰色、香槟金色）；
- 各个按键带底色LED和激活色LED，颜色可定制；
- 采用MU-BUS总线通信；

性能描述：

标准86底盒安装，支持无缝连接，提供6键，每个按键带1路LED指示灯，复位式轻触开关，结构成熟，性能稳定，标准工艺，采用塑料材质（颜色可选黑色、灰色和香槟金）；自带感应式背光灯；提供两路IO输入可外接传感器；

Performance Description

The faceplate can be installed in the standard 86 box. It supports seamless connection. The faceplate can collocate a variety of material and colors. It provides 6 keys, each key has 1 way of LED indicator, touch reset switch. It has mature structure, high performance and stable operation. The bronze silk drawing faceplate is handled by high light and aluminum alloy stamping process. It provides two IO in-puts which can be concatenated with the external sensor; aluminum panel drawing;

Performance Characteristics

- The faceplate can be installed in the standard 86 box. Multi faceplate cascade function is available;
- Provides 6 programmable keys. Icon label can be carved or silk printed ;
- Can trigger the button modes of touch, touch and release, deep press, deep press and release ;
- Provide two ways of long distance sensor input, with 12V power;
- The sensor interface has opto- couplers isolation, high voltage over current protection. It has strong anti-interference capability and high reliability;
- The standard process, aluminum alloy stamping, high light, bronze silk drawing;
- Each key has bottom color LED and activate color LED. Color can be customized;
- Communicated by MU-BUS;

MU-KP06C

智能6键面板

技术参数:

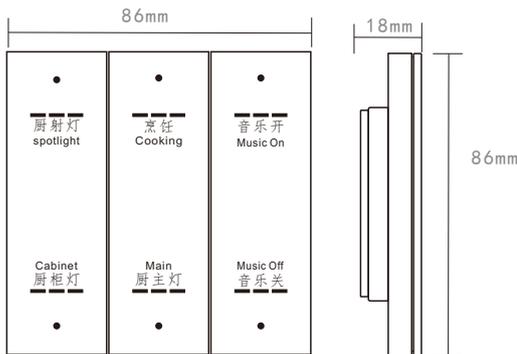
- 电气参数:
 - 供电电源: DC24V;
- 按键输入: 6个按键;
- 外观颜色: 可选黑色、灰色、香槟金色;
- 传感接口: 2个干接点开关信号;
- 按键类别: 复位轻触式;
- 控制信号: 1×MU-BUS总线;
- 安装方式: 标准86底盒;
- 静功率消耗: 0.3W;
- 最大功耗: 0.5W;
- 工作环境:
 - 运行温度/湿度: 0°C ~ 45°C/20% ~ 93% RH;
 - 储存温度/湿度: -40°C ~ +55°C/10% ~ 93%RH;
- 产品规格:
 - 外观尺寸: 86mm × 86mm × 18mm;
 - 重量: 88g/pcs;

Technical Parameters

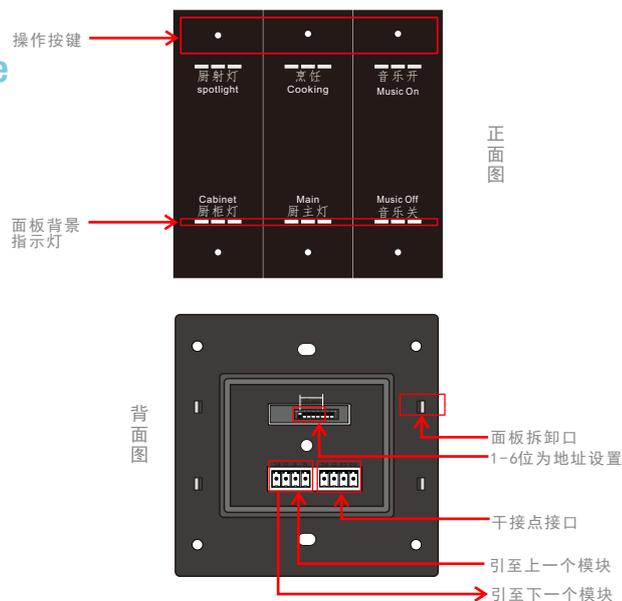
- Power Supply: DC24V 20mA;
- Button Input: 6 button keys ;
- Appearance color: Black frame, Bronze silk drawing faceplate, color customization;
- LED indicator: 6 buttons of activate blue LED, 3 white bottom LED;
- Sensor interface: 2 dry contacts of switch signal;
- Key type: Touch reset;
- Control signal: 1×MU-BUS;
- Working Temp/Relative Humidity : 0°C ~ 45°C/ 20% ~ 93%RH;
- Storage Temp/Relative Humidity : -40°C ~ +55°C/ 10% ~ 93%RH;
- Dimension : 86mm(L)×86mm(W)×18mm(H);
- Weight : 88g/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



CONTROL PANEL MODULE

控制面板类模块

7寸有线真彩触摸屏 7 INCH WIRED REAL COLOR TOUCH PANEL



MU70A

性能特点：

- 安装尺寸215*129*35(含面板)，开口尺寸202*106*52；
- 全铝面拉丝面板，高雅而又尊贵；
- 自定16组定时器，用户可在屏上校正时间，更改定时时间；
- 触发定时器的时候自动弹出提示；
- 7寸TFT 6,5000色真彩色工业级屏幕，1024x600高分辨率支持双向通信；
- 单个操作可触发多条指令，支持双向通信；
- 采用ARM处理芯片，支持多任务进程，功能强大；
- 操作界面可编辑，图形界面支持图片、图形、文字、3D按键
- RS485/MU-BUS总线通信
- USB下载工程12.提供开放式界面编辑平台

性能描述：

7寸65K真彩屏单控开关、窗帘和场景总线控制，可自定义界面支持3D文字、3D图片个性化界面；用于集中控制放在客厅或床头，支持双向通信；

Performance Description

The product has 7 inch real color screen. It can achieve single switch control, curtain and scene bus control. User can customize the graphic interface, which supports 3D text and 3D photo. The panel supports bi-directional communication and central control;

Performance Characteristics

- Installation dimension:215×129×35 (including panel),
Hole dimension:202×106×52;
- Aluminum wire panel, elegant and noble;
- The touch panel can customize 16 groups of timer. User can correct the time and change the timer on the screen;
- Can automatically pop-up tips when triggering the timer;
- 7 inch TFT 6,5000 real color industrial grade screen,800X480 high resolution;
- Provides bi-directional communication;
- A single operation can trigger multiple instructions;
- It has ARM processing chip, supports multi task process. And it is powerful;
- Operation interface can be edited. Graphic interface supports picture, graphic, text and 3D buttons;
- Download project by USB interface;
- Provides opening interface editing platform;
- Communicated by MU-BUS;

MU70A

7寸有线真彩触摸屏

技术参数:

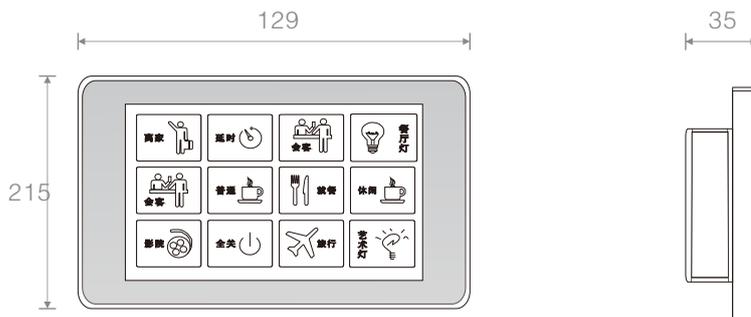
- 供电电压: DC 12-24V
- 工作电流: < 1A;
- 待机电流: 200 μ A;
- 触屏尺寸: 7寸
- 屏幕彩色: 65536级
- 触屏方式: 电容屏
- 屏幕分辨率: 1024 \times 600
- 外框颜色: 银白
- 通信接口: 1 \times RS485/rs232/MU-BUS 3位凤凰端子
- 工程下载: USB接口 T型头
- 工作温度\湿度: -0 — 45°C/20% — 93%RH
- 存储温度\湿度: -40°C — 55°C/10% — 93%RH
- 外观尺寸: (L)215mm \times (W)129mm \times (H)35mm
- 重量: 508g/pcs

Technical Parameters

- Power Supply: DC12-24v 600mA;
- Panel size: 7 inch;
- Screen color:65536 grade;
- Resolution of screen:800 \times 480;
- Color of frame: silver white;
- Touch panel mode: resistance type;
- Communication interface:1 \times RS485/rs232/MU-BUS 3 Phoenix terminal;
- Download port for project: USB interface T-joint;
- Working Temp/Relative Humidity : 0°C ~45°C/
20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/
10%~93%RH;
- Dimension : 215mm(L) \times 129mm(W) \times 35mm(H);
- Weight : 508g/PCS;

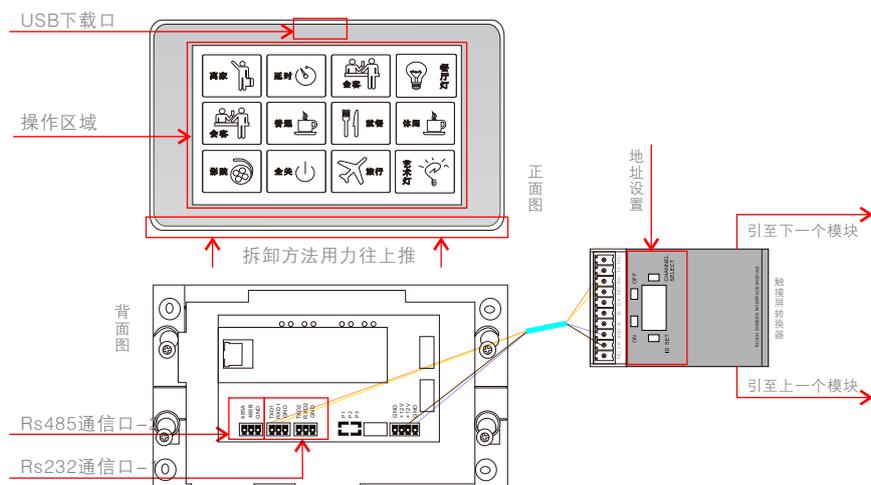
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

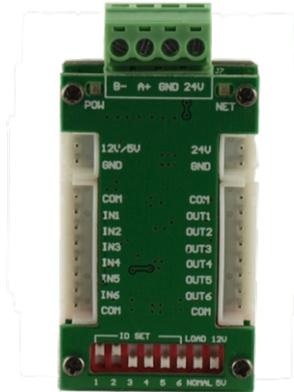
Wiring principle



EXTENSION MODULE

扩展类模块

6进6出IO模块 6 CHANNEL IO MODULE



MU-MI0606A

性能特点：

- 提供6路TTL电平输出，6路干接点信号输入检测；
- 输出电平可设置5V或12V,适应多种LED供电面板；
- 输出接口可定义高电平或低电平输出；
- 输入端口为光耦隔离，高压过流保护，具有很强的抗干扰性和可靠性；
- 体积小，非常适合86盒内隐藏式安装；
- 可用于机械按键，传感器触发开关的识别；
- LED指示端口状态；
- 提供5V、12V、24V电压适应多种传感器；
- 外观尺寸：(L)50mm × (W)30mm × (H)12mm；
- 采用MU-BUS总线通信；

性能描述：

体积小可安装在86盒内，搭配给类复位或是自锁类面板和各类干接点传感器使用，每组带LED反馈灯总线/RS485控制；

Performance Description

The product has small size that can be installed in the 86 box. It can be collocated with similar-reset faceplate, or self locking type faceplate and all kinds of dry contact sensors. Each channel has LED feedback light bus /RS485 control;

Performance Characteristics

- The product has small size. It can be installed in standard 86 box;
- Provides 6 channel TTL electrical level output,6 channel dry contact signal input detection;
- Output electricity level can be set to be 5V or 12V,which is suitable for a variety of faceplate that need LED power supply;
- Output interface can be defined to be in high electricity level or low electricity level;
- The Input interface has optocoupler isolation, high voltage over current protection. It has strong anti-interference capability and high reliability;
- Can be used for the identification of mechanical buttons, sensor trigger switch;
- Can supply 5V,12V,24V to be suitable for a variety of sensors;
- Communicated by MU-BUS;

MU-MI0606A

6进6出IO模块

技术参数:

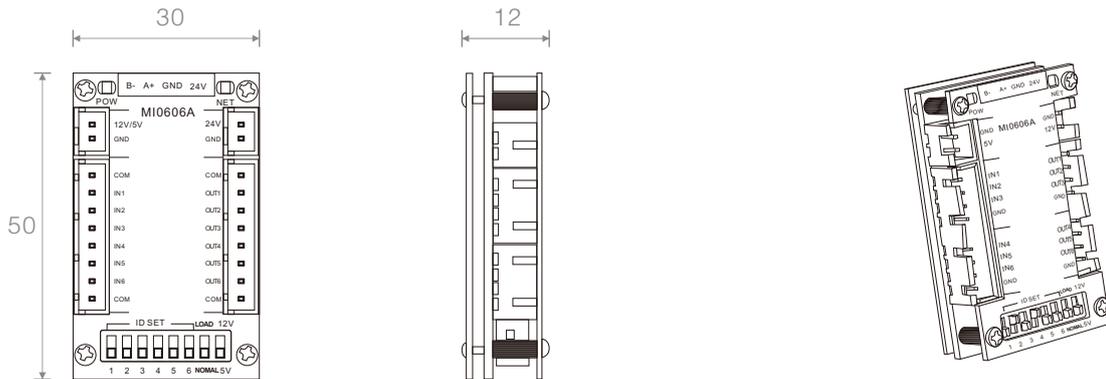
- 工作电压: DC 24V;
- 静功率消耗: 0.5W;
- 最大功耗: 0.8W;
- 外观尺寸: (L)50mm × (W)30mm × (H)12mm;
- 采用MU-BUS总线通信;
- 重量: 41g/PCS

Technical Parameters

- Power Supply: DC24v 10mA;
- Can supply 5V, 12V, 24V to be suitable for a variety of sensors;
- Can be used for the identification of mechanical buttons, sensor trigger switch;
- LED indicates the status of interface;
- Working Temp/Relative Humidity : 0°C ~45°C/
20%~93%RH;
- Storage Temp/Relative Humidity : -40°C ~+55°C/
10%~93%RH;
- Dimension : 50mm(L)×30mm(W)×12mm(H);
- Weight : 41g/PCS;

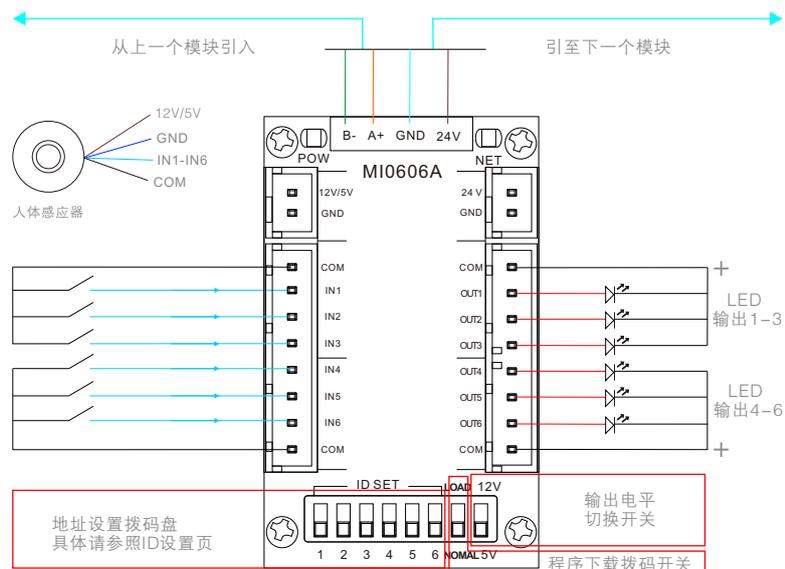
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



EXTENSION MODULE

扩展类模块

2组弱电窗帘模块 2 GROUPS OF CURTAIN IO OUTPUT MODULE



MU-CR02A

性能特点：

- 全铝注塑机身，体积小巧，非常适合隐藏式安装；
- LED数码管状态指示各个窗帘状态；
- 具有2组独立窗帘控制；
- 自带应急按键；
- 可设置通电后各组窗帘状态；
- 采用MU-BUS总线通信；

性能描述：

体积小巧可安装在86盒内，可控制2组弱电接口窗帘电机，实现窗帘打开、关闭、停止操作；

Performance Description

The product has small size. It can be installed in standard 86 box. It can control 2 sets of curtain motor with weak power interface. It can achieve curtain's opening, closing and stopping operation;

Performance Characteristics

- Aluminum injection molding, compact size, very suitable for hidden type installation;
- LED digital tube displays the status of each curtain;
- 2 groups of independent curtain control;
- With emergency button;
- Can set up the state for each group of curtain after power is on;
- Communicated by MU-BUS;

MU-CR02A

2组弱电窗帘模块

技术参数:

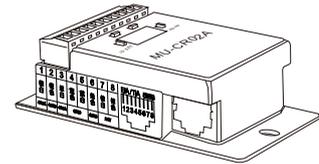
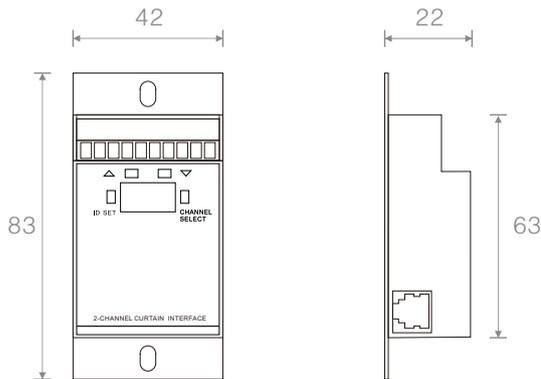
- 供电输入电压: DC12~24V;
- 设备供电输入: DC 24V 100mA;
- 输出回路: 2组窗帘;
- 控制按键: 4×轻触式按键;
- 地址: 3位数码管、00~63;
- 安装方式: 隐藏安装;
- 运行温度/湿度: 0°C~45°C/ 20%~93%RH;
- 储存温度/湿度: -40°C~+55°C/ 10%~93%RH;
- 外观尺寸: (L)63mm×(W)42mm×(H)22mm;
- 重量: 112g/PCS;

Technical Parameters

- Power Supply: DC24v 100mA;
- Output channel: 2 groups of curtain;
- Control Button: 4×Touch key;
- Address: 3 Bit digital tube、00~63;
- Working Temp/Relative Humidity : 0°C~45°C/
20%~93%RH;
- Storage Temp/Relative Humidity : -40°C~+55°C/
10%~93%RH;
- Dimension : 63mm(L)×42mm(W)×22mm(H);
- Weight : 112g/PCS;

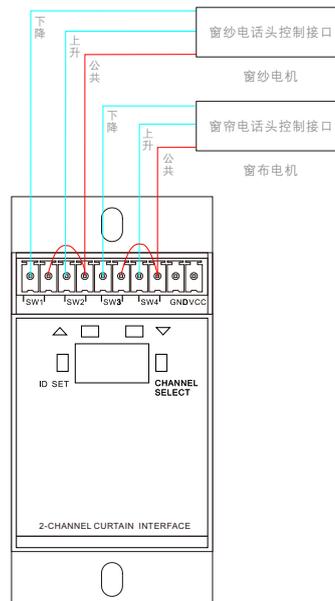
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



EXTENSION MODULE

扩展类模块

DMX输出模块 DMX512 SIGNAL MODULE



MU-DMX-01A

性能特点：

- 全铝注塑机身，体积小，非常适合隐藏式安装；
- 提供8组DMX512信号地址，每路可独立控制000-255亮度值，且带反馈；
- 凤凰端子接口，稳定可靠，连线方便；
- 场景可通过软件设置；
- 信号灯实时监控通信数据；
- 采用MU-BUS总线通信；

性能描述：

通过MU-BUS总线控制DMX512信号的设备，可控制8个DMX通道，自带场景功能，可查询各个回路状态；可给LED灯带、RGB灯带调光、调色；

Performance Description

Through MU-BUS, the product can control 8 DMX channels. It has scene function. It can inquire the status of each channel, dim the LED light belt and adjust the color of RGB light belt;

Performance Characteristics

- Aluminum injection molding, compact size, very suitable for hidden type installation;
- Supplies 8 groups of DMX512 signal address, each channel can independently control brightness value from 000 to 255 with feedback value;
- Has stable phoenix interface. Easy to connect;
- The module can achieve marquee, water lights, flashing lights scenes. Other scenes can be set up by the software;
- Communication data can be monitored by Signal light;
- Communicated by MU-BUS;

MU-DMX-01A

DMX输出模块

技术参数:

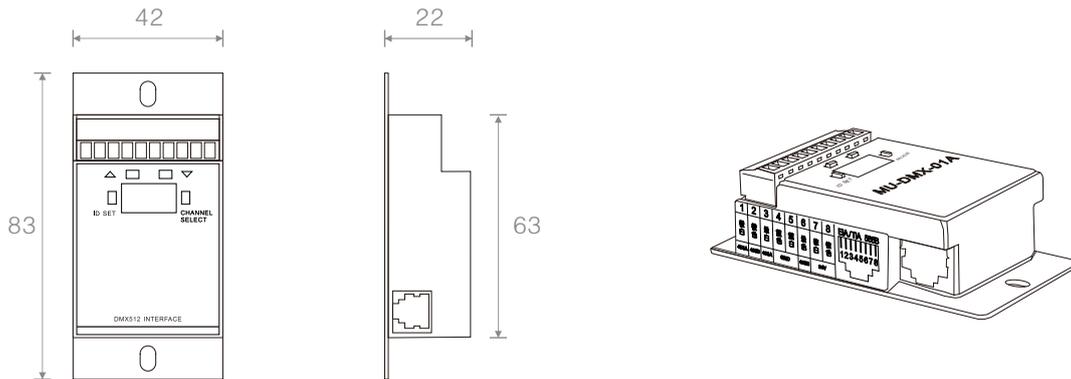
- 供电电压: DC 24V;
- 通信接口: 2×MU-BUS;
- dmx端口: 1×DMX512;
- DMX地址: 8个通道;
- 显示界面: 1×3位数码管LED;
- 外置按键: 4×轻触按键;
- 外观尺寸: (L)63mm×(W)42mm×(H)22mm;
- 重量: 112g

Technical Parameters

- Power Supply: DC24v 100mA;
- Dmx interface: 2×DMX512, Phenix interface;
- DMX address: 8 channel;
- Display media: 1×3 bit digital tube LED;
- Control Button: 4×Touch key
- Working ETemp/Relative Humidity : 0°C~45°C/
20%~93%RH;
- Storage Temp/Relative Humidity : -40°C~+55°C/
10%~93%RH;
- Dimension : 63mm(L)×42mm(W)×22mm(H);
- Weight : 112g/PCS;

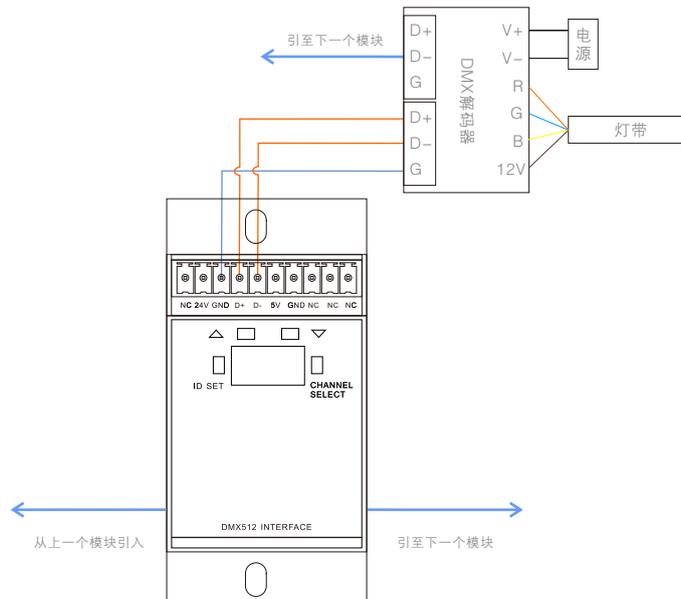
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



EXTENSION MODULE

扩展类模块

红外媒体控制模块 INFRARED MODULE



RS-GW1200B

性能特点：

- 标准导轨式安装占4个模数位；
- 可控制6台红外遥控设备，每个遥控可学习100个功能键；
- 可控制2台串口设备，任意设定1200-115200波特率；
- 提供一个TCP/IP透明传输的RS485接口；
- 使用12-24V Dc低压电源，安全可靠；
- 通过设置软件学习红外，导入或导出红外码的数据；
- 提供一个网口可结合电脑，快思聪，AMX等高端中控使用；
- 自带硬件红外学习功能，可及时测试红外码是否正确；

性能描述：

本产品为导轨式安装，含6路红外输出，具备强大红外学习能力及兼容性，可控制6个红外设备如电视、DVD、空调等，2路可编程串口控制投影机 and 矩阵等设备；

Performance Description

The product is installed in the standard 35mm DIN-Rail. It has 6 channel IR output. The module has strong IR learning capability and compatibility. It can control six IR devices such as TV, DVD, AC, etc. It's 2 channel programmable serial ports can control projector and matrix device;

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- The product can control 6 IR remote control devices. Each remote control can learn 100 function keys;
- Can control 2 sets of serial-port device with setting baud rate from1200 to 115200 optionally;
- Can study IR code through configuration software, import or export data of IR code;
- Supplies a RJ45 port to connect with AMX or Crestron central controller;
- Can test the validity of infrared code with hardware infrared learning function;

RS-GW1200B

红外媒体控制模块

技术参数:

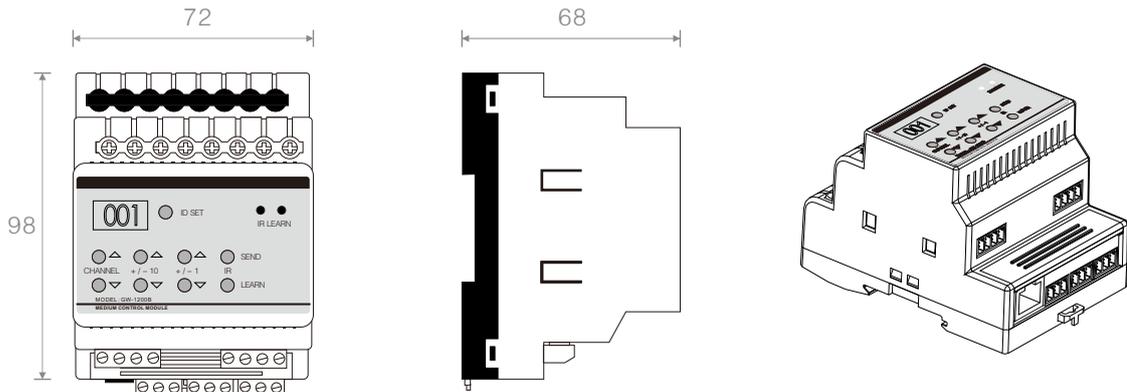
- 工作电压: DC 24V;
- 提供一个TCP/IP透明传输的RS485接口;
- 运行温度/湿度: 0°C ~ 45°C/20% ~ 93% RH;
- 储存温度/湿度: -40°C ~ +55°C/10% ~ 93%RH;
- 外观尺寸: 72mm × 98mm × 68mm;
- 重量: 204g/PCS

Technical Parameters

- Power Supply: Dc24v 90mA;
- Supply a RS485 interface through TCP/IP transparent transmission;
- Working Temp/Relative Humidity : 0°C~45°C/20%~93%RH;
- Storage Temp/Relative Humidity : -40°C~+55°C/10%~93%RH;
- Dimension : 72mm (L) × 98mm (w) × 68mm (H) ;
- Weight : 204g/PCS;

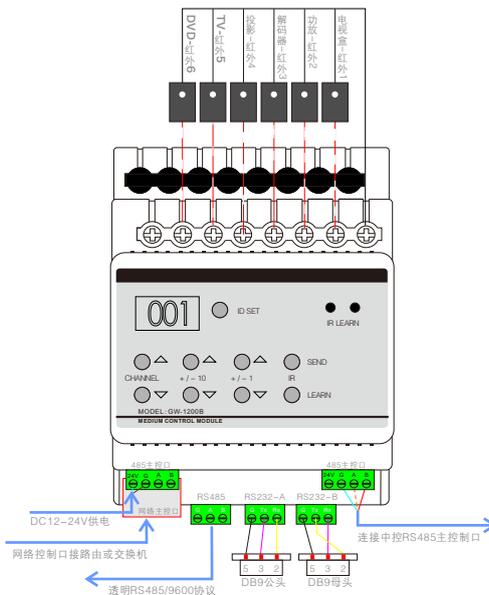
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



EXTENSION MODULE

扩展类模块

总线级联模块 BUS CASCADE MODULE WITH POWER SUPPLY



MU-TR-200P

性能特点：

- AC110-220V宽压供电,采用工业级DC-DC隔离电源模块,提供24V,0.8A;
- 内置进口全隔离MU-BUS通讯芯片,输入输出双隔离;
- 导轨式安装,占4个模数位,符合MU-BUS总线标准;
- 独有的隔离保护电路,可带电热插拔;
- 有效延长MU-BUS通讯距离300m左右;

性能描述：

本产品用于实现对MU-BUS差分通信信号的通信距离延长及通信隔离功能,可以使MU-BUS信号延伸1000米左右,同时提供24V,0.8A电源,具有抗干扰能力强、传输距离远、速率高、工作稳定等特点;

Performance Description

This product is used to achieve the function of extending communication distance of MU-BUS differential communication signal and communication isolation. It can make the MU-BUS signal reach 1000 meters. At the same time, it can supply 24V, 0.8A DC power to 5 bus module. The product has many merits, such as strong anti-interference ability, long transmission distance, high speed, stability and so on;

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- AC110-220V wide voltage power supply, with industrial grade DC-DC isolation power module. 24V,0.8A Power output;
- Built in imported whole isolation MU-BUS communication chip, input and output double isolation;
- 1500W surge protection, 15KV static electricity protection, 2500V communication isolation;
- Has unique isolation protection circuit. Can hot plug;
- Can effectively extend the communication distance of MU-BUS about 1000m;

MU-TR-200P

总线级联模块

技术参数:

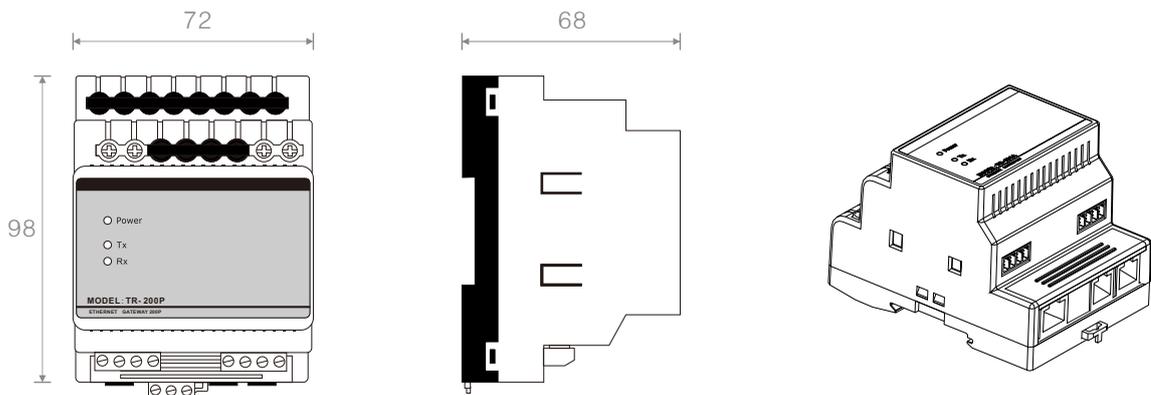
- 供电电压: AC110-AC220V;
- 符合标准: MU-BUS总线标准;
- 输出电压: DC24, 0.8A;
- 功耗: 约2W;
- 传输延时: $\leq 10\mu\text{s}$;
- 延长距离: 300米
- 工作温度/湿度: $-0 \sim 70^\circ\text{C}/20\% \sim 93\%\text{RH}$;
- 存储温度/湿度: $-40^\circ\text{C} \sim 55^\circ\text{C}/10\% \sim 93\%\text{RH}$;
- 外观尺寸: 72mm(L) \times 98mm(W) \times 68mm(H);
- 重量: 194g;

Technical Parameters

- Power Supply: Dc24v 8mA;
- Power supply: AC110-AC220V;
- Power consumption: about 2W;
- Transmission delay: $\leq 10\mu\text{s}$;
- Extended distance: 1000m;
- Working Temp/Relative Humidity: $0^\circ\text{C} \sim 45^\circ\text{C}/20\% \sim 93\%\text{RH}$;
- Storage Temp/Relative Humidity: $-40^\circ\text{C} \sim +55^\circ\text{C}/10\% \sim 93\%\text{RH}$;
- Dimension: 72mm (L) \times 98mm (w) \times 68mm (H);
- Weight: 194g/PCS;

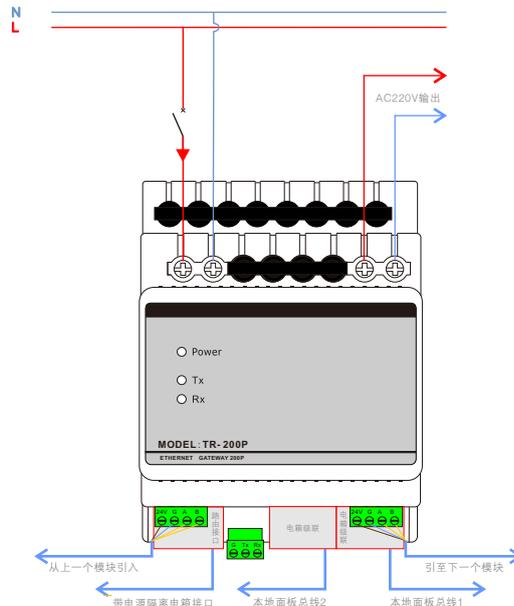
产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图

Wiring principle



EXTENSION MODULE

扩展类模块

导轨式系统电源 DIN TYPE SYSTEM POWER SUPPLY



MU-30

性能特点：

- 标准35mm导轨安装;
- 自带过流、过载和短路保护;
- 提供24V, 1.5A电源供电;
- 双重绝缘等级;
- 国际宽电压供电;

性能描述：

35mm导轨安装,过流、过载和短路保护, 为系统提供可靠的供电电源;

Performance Description

The product is installed in the standard 35mm DIN-Rail. It has over current, over load and short circuit protection functions. It can supply reliable power for the system;

Performance Characteristics

- Standard 35mm DIN-Rail Installation [Space Occupation:4P(per P:18mm)];
- With over current,over load and short circuit protection function;
- Supplies 24V,1.5A DC Power ;
- Double insulation grade;
- International wide voltage power supply;

技术参数:

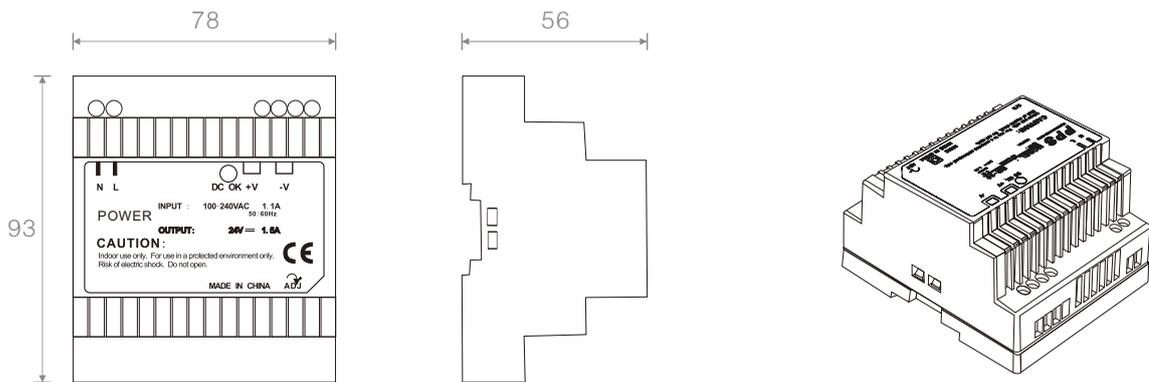
- 供电电源: AC110-220V国际宽电压;
- 空载待机消耗瓦数<0.5W (DR-15);
- 空载待机消耗瓦数<1W (DR-100);
- 适合安装于 DIN rail TS35 / 7.5 或 15;
- 适用于建筑及家电自动化控制24V, 1.5A;
- 工作温度/湿度: -0 — 70°C/20% — 93%RH;
- 存储温度/湿度: -40°C — 55°C/10% — 93%RH;
- 外观尺寸: (L)78mm × (W)93mm × (H)56mm;
- 重量: 400g/PCS;

Technical Parameters

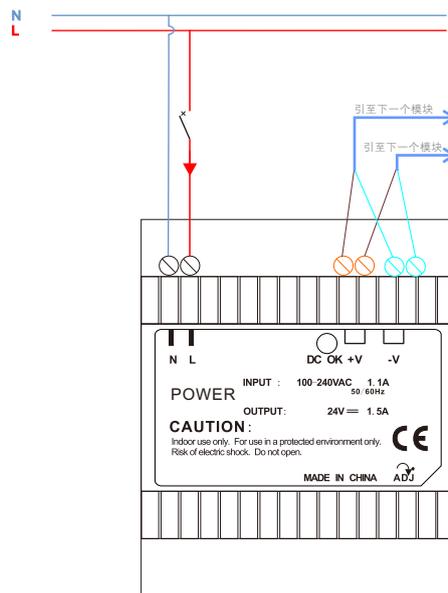
- Power Supply: AC110-220V wide voltage;
- Idling standby power consumption: <1W (DR-100);
- Be suitable for installing on : DIN rail TS35/7.5 or 15;
- Applies to building and home appliance automation control;
- Extended distance: 1000m;
- Working Temp/Relative Humidity: 0°C~45°C/
20%~93%RH;
- Storage Temp/Relative Humidity: -40°C~+55°C/
10%~93%RH;
- Dimension: 78mm(L) × 93mm(w) × 56mm(H);
- Weight: 400g/PCS;

产品尺寸图 (量度单位:毫米)

Product size (Unit :mm)



接线原理图 Wiring principle



SOFTWARE APPLICATION

软件类应用

安卓版配置软件 CONFIGURATION SOFTWARE FOR ANDROID VERSION



性能描述：

结合工程实际，MU-R0816A与基于MU-BUS总线的GW100主机、面板、触屏等组成智能照明控制系统，通过我们提供的免费安卓版配置软件，可以轻松实现按键绑定、场景设置、定时等配置及控制；

Performance Description

Based on MU-BUS protocols, MU-R0816A switch module, GW100 gateway, faceplate, touch panel form a intelligent lighting control system, via free-free configuration software of Android version, you can easily achieve key binding, scene setting, timer setting and configuration functions.



实现功能：

- 区域设置
- 定时设置
- 按键绑定
- 智能模块自动识别
- 场景设置
- 虚拟按键设置
- 任意关联及集中控制
- 安全设置

Function realization

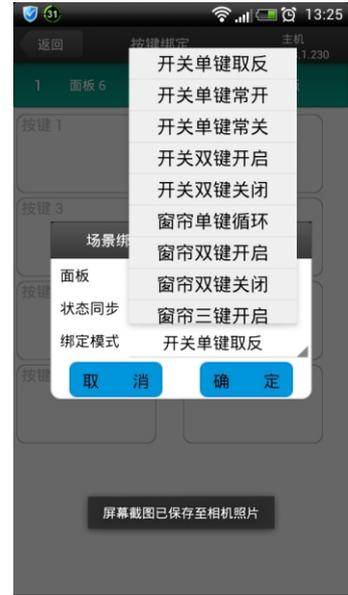
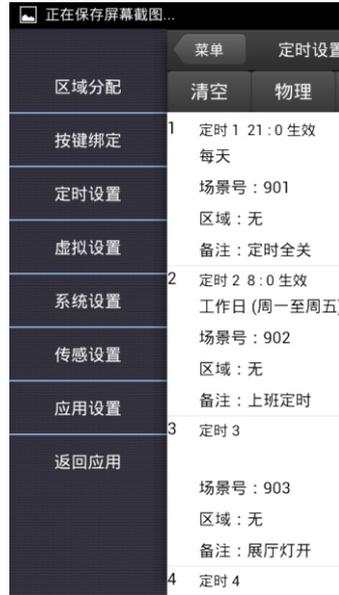
- Area setting
- Timer setting
- Key binding
- Automatic recognition of intelligent module
- Scene setting
- Virtual keys setting
- Arbitrary Association and centralized control
- Safety setting

SOFTWARE APPLICATION

软件类应用

安卓版配置软件 CONFIGURATION SOFTWARE FOR ANDROID VERSION

页面截图 Page screenshots



SOFTWARE APPLICATION

软件类应用

控制界面软件：

- 控制界面（基于安卓平台或IOS平台，需要收费）可以实现PC控制、面板控制、触屏控制、安卓或IOS界面控制；

Control Interface

- Control interface (based on android or IOS) can achieve PC control and panel control, touch screen control, android or IOS interface control functions

手机控制界面 MOBILE PHONE CONTROL INTERFACE

页面截图 Page screenshots

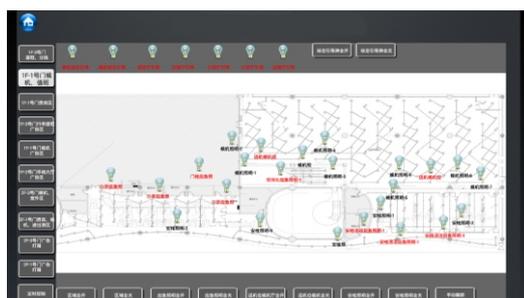


SOFTWARE APPLICATION

软件类应用

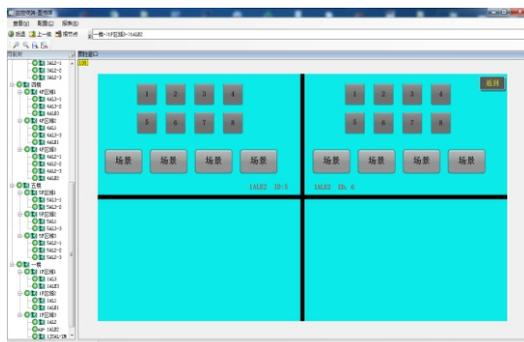
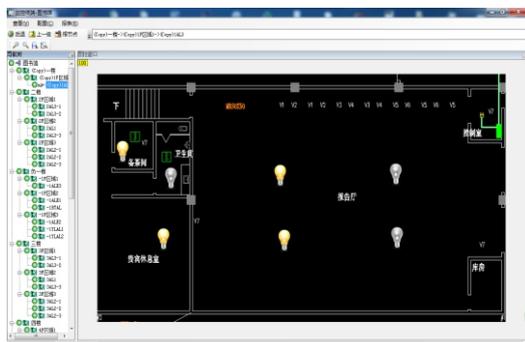
平板控制界面 PAD CONTROL INTERFACE

页面截图 Page screenshots



PC控制界面 PC CONTROL INTERFACE

页面截图 Page screenshots



PROJECT CASE

工程案例



上海大光明电影院声学建筑
上海世博会日本企业馆智能灯光
霍尔果斯慧百传媒音乐录音棚
上海市长宁区智慧指挥中心
苏州正荣国岭售楼处智能沙盘
苏州正荣幸福城邦社区会所
上海明苑别墅
上海汤臣高尔夫别墅
上海东郊一号别墅
上海两河流域别墅
上海圣得恒业花园别墅
江苏君地蔚林半岛
中国陶瓷博物馆
浙江警官学院
意大利世博会KIP展厅
上海教育电视台电教馆

上海红树林赞成铂廷别墅
上海瑞生花园别墅
昆山上海湾别墅
上海申养滨江望年荟
上海滨江凯旋门
苏州湖滨一号
万科无锡魅力之城会所
东郊中心
上海国家会展中心
阿普拉上海办事处
上海大宁金茂府
上海太阳都市花园
余姚伊顿国际
余姚众安悦龙湾别墅
余姚碧桂园金麟府
上海宛平88公寓

江西上饶灵山小镇古戏台
江西上饶灵山小镇灯光秀
江西上饶灵山小镇会所
中国石化集团西北公司智能办公系统
金地集团金地湾流域社区会所
金地集团金地艺境社区会所
上海九溪十八岛别墅会所
哈尔滨中山路刘老根大舞台智能化舞美系统
长春东岭南街刘老根大舞台智能化舞美系统
长春慧百集团多功能会议中心
三亚慧百集团企业家俱乐部智能化影音系统
浙江海亮集团展览中心
浙江海亮教育集团会议中心
浙江安吉伴花山宿智慧酒店
北京公园1872国际公寓智慧酒店
贵州安顺黄果树石头寨智慧酒店

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