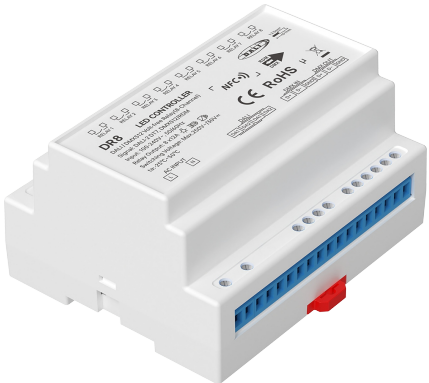


LED Controller DR8

DALI-2, DMX512/RDM

- Relay module with zero-crossing detection and high inrush-current capability.
- Supports both DALI and DMX512 operating modes.
- DALI-2 certified and compliant with Device Type 7 (DT7) requirements and IEC 62386-101, IEC 62386-102 and IEC 62386-208.
- Complies with the DMX512 protocol and supports RDM remote device management.
- The NFC Lighting App or a DALI master controller can be used to configure the DALI address for each channel, power-on state, system failure state and other parameters.
- The NFC Lighting App or WiFi-RDM App can be used to configure the DMX start address, address mode, system failure state and other parameters.
- Both DALI and DMX support CH01, CH02, CH04 and CH08 address modes, enabling grouped multi-channel control or independent channel control.
- Volt-free relay outputs support the switching of AC or DC load circuits for a wide range of applications.
- Each channel supports a maximum current of 12 A for reliable operation.
- Wide input voltage range: 100–240 Vac.
- Compatible with standard 35 mm DIN rails.



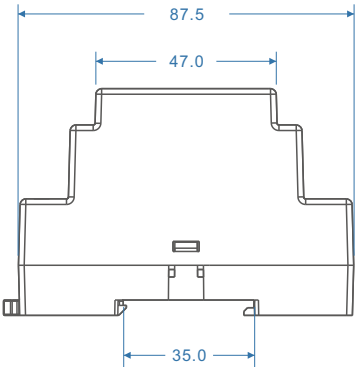
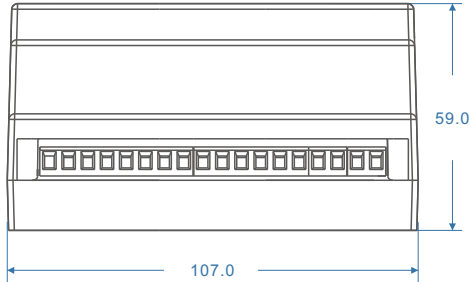
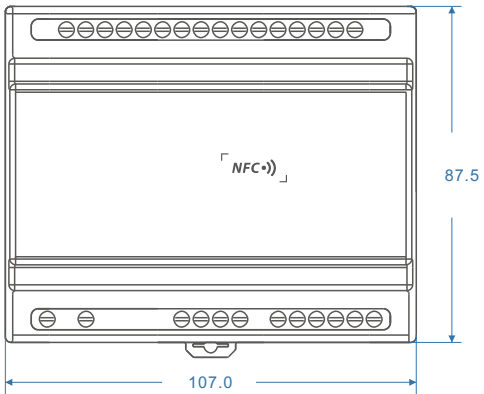
EMC LVD RoHS μ

Technical Specifications

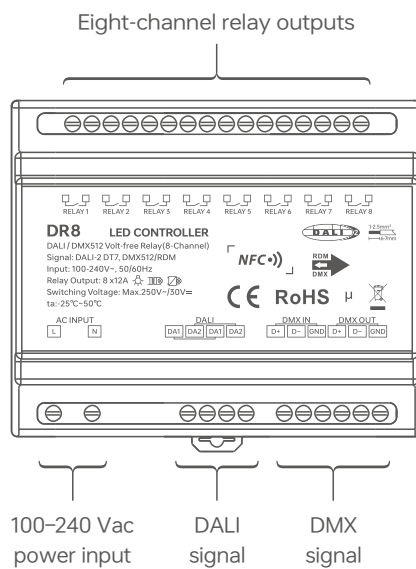
Input and Output	Model	DR8
	Input Signal	DALI-2 DT7, DMX512/RDM
	Input Voltage	100-240V~,50/60Hz
	Number of Channels	8
	Load Output	Max. 8×12A (resistive, inductive or capacitive loads)
	Switching Voltage	Max. 250V~/30V=
	Relay Inrush Current	240A@3ms
Environment	Operating Temperature	-25°C ~ 50°C
Protection	Protection	Zero-crossing protection
Safety & EMC Standards	EMC Standards	ETSI EN 301 489-1 V2.2.3、ETSI EN 301 489-3 V2.3.2.
	Safety Standards (LVD)	IEC 61347-2-11:2024、IEC 61347-1:2024
	DALI-2 Standards	IEC 62386-101,102,208
Others	Product Dimensions	L107×W88×H59(mm)
	Package Dimensions	L109×W94×H60(mm)
	Net Weight	310g±10g

Dimensions

Unit: mm

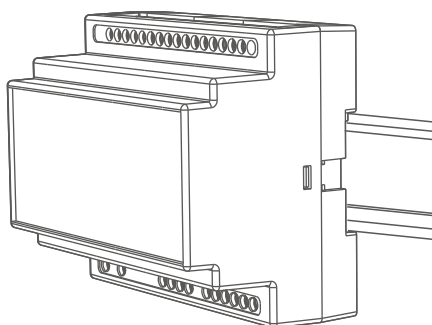


Terminal Description



Installation

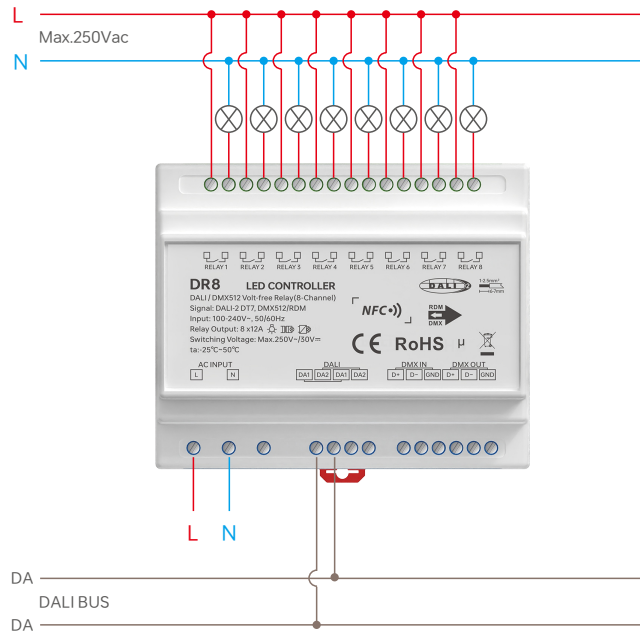
DIN-rail mounting. Compatible with TS-35/7.5 and TS-35/15 rails.



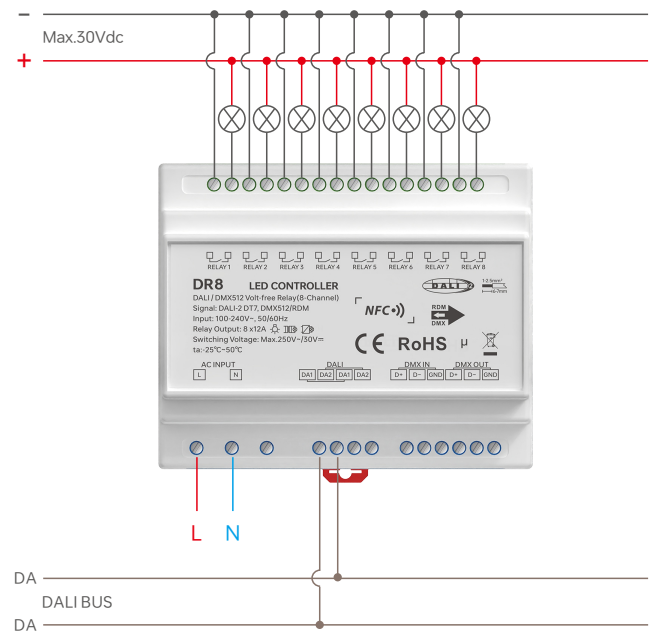
Wiring Diagrams

DALI Application

(1)AC load output wiring



(2)DC load output wiring



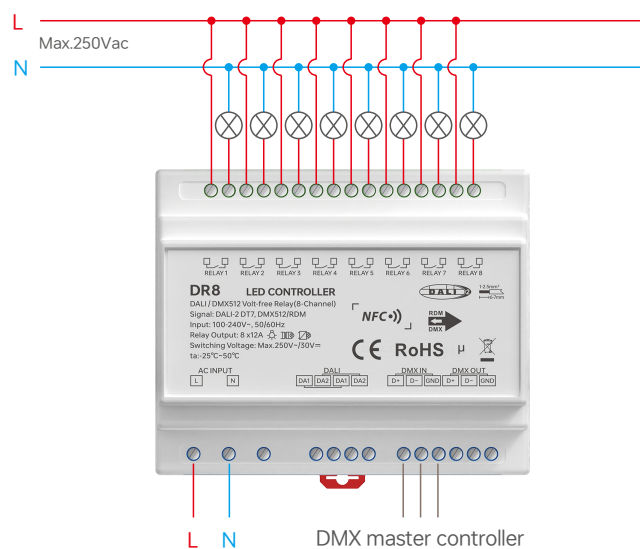
DMX Application

When the DMX data value is below 50, the output switches off.

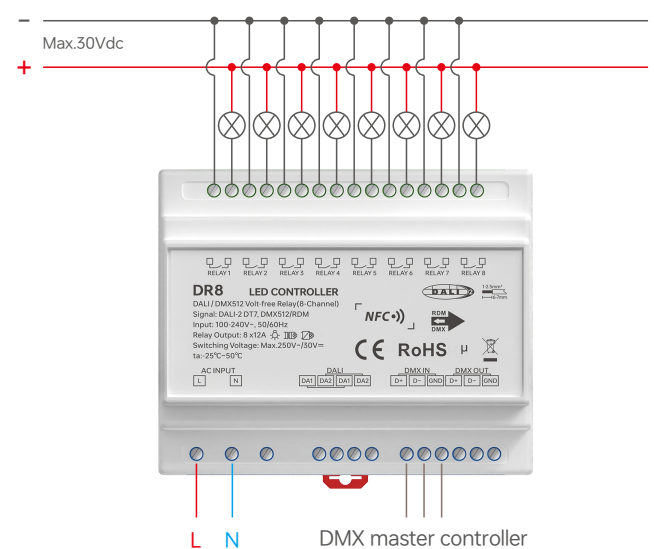
When the DMX data value is above 200, the output switches on.

When the DMX data value is between 50 and 200, the output retains its previous on/off state.

(1)AC load output wiring



(2)DC load output wiring



Mode and Address Setting Table

Channel	Mode Address	CH01 1 Address	CH02 2 Addresses	CH04 4 Addresses	CH08 8 Addresses
Channel 1		1	1	1	1
Channel 2		1	1	1	2
Channel 3		1	1	2	3
Channel 4		1	1	2	4
Channel 5		1	2	3	5
Channel 6		1	2	3	6
Channel 7		1	2	4	7
Channel 8		1	2	4	8

Using the WiFi-RDM App

1. The DR8 can be used with address programmers that comply with the standard RDM protocol.

The LTECH WiFi-RDM01 RDM address programmer is recommended. The App can be used to configure the DR8 address mode, system failure state, unicast/multicast settings and other parameters. For details, refer to the WiFi-RDM01 user manual.



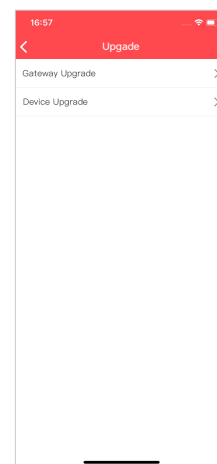
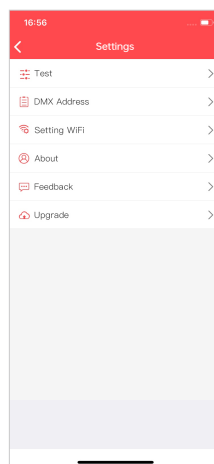
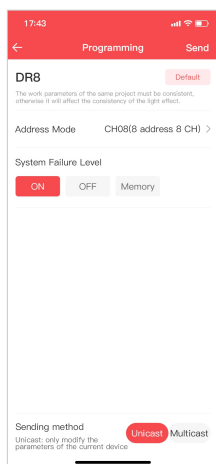
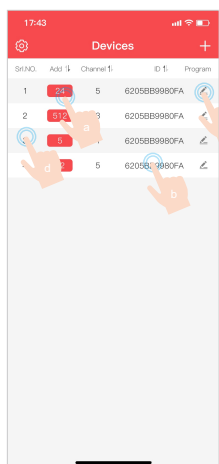
APP

* The WiFi-RDM01 address programmer and controller are sold separately.

2. Use the App to configure the DMX address, address mode and system failure state.

Available address modes:

CH01: 1 address for 8 channels; CH02: 2 addresses for 8 channels; CH04: 4 addresses for 8 channels; CH08: 8 addresses for 8 channels



- Tap the field next to Address to edit the address.
- Tap Identifier to view detailed product information.
- Tap the programming button to enter the parameter editing screen.
- Tap the device number to send an identification command.

Using the NFC Lighting App

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iPhone 8 and later that are compatible with iOS 13 or higher).



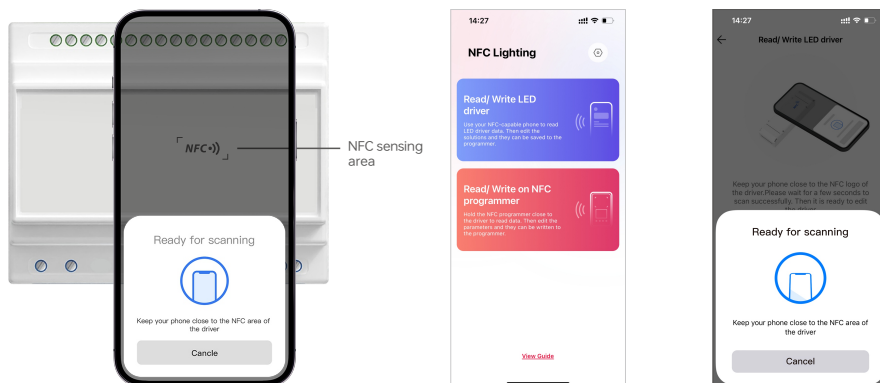
* Before you begin setting the parameters of the driver, please make sure the driver is powered off .

Read/Write the LED driver

Use your NFC-capable phone to read LED driver data, then edit the parameters and they can be directly written to the driver.

1. Read the LED driver

On the APP home page, click 【Read/Write LED driver】 , then keep the programmer's sensing area close to the NFC sensing area of the driver to read the driver parameters.



2. Edit Parameters

Tap Parameter Management to configure the DALI start address, DALI advanced template, power-on state, system failure state, DMX address mode, DMX start address and other advanced parameters.

DALI Mode: The DALI address mode, DALI address for each channel, power-on state and system failure state can be configured.

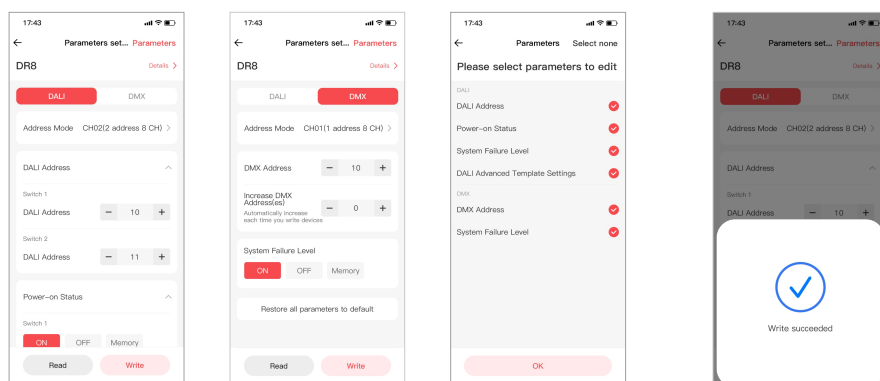
DMX Mode: The DMX address mode, DMX address, address increment and system failure state can be configured.

DMX Control Logic: When the DMX data value is below 50, the output switches off. When the DMX data value is above 200, the output switches on.

When the DMX data value is between 50 and 200, the output retains its previous on/off state.

3. Write to the driver

After completing the parameter settings, click 【Write】 in the upper right corner, and keep the programmer's sensing area close to the NFC sensing area of the driver, so the parameters can be written to the driver.



Attentions

- Products shall be installed by qualified professionals.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
- During installation, avoid placing the product near large metal objects or stacking multiple units, as this may cause signal interference and affect operation.
- Avoid installation in lightning-prone areas, strong magnetic fields, or high-voltage areas.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

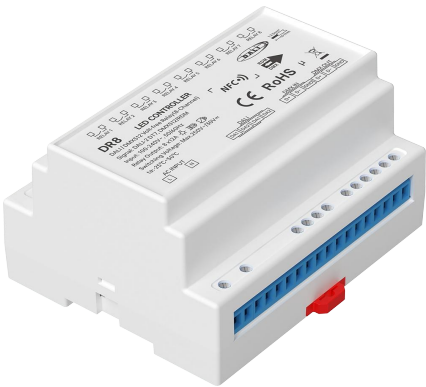
- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

LED控制器
DR8

DALI-2, DMX512/RDM

- 继电器模块带过零检测，具备抗高浪涌能力；
- 支持 DALI 模式和 DMX 512 模式；
- 通过 DALI-2 认证，符合 DT7 设备类型；遵循 IEC62386-101、IEC62386-102、IEC62386-208 标准；
- 符合 DMX 512 标准协议，支持 RDM 远程设备管理；
- 可通过 NFC Lighting APP 或 DALI 主控设置 DALI 每通道地址、负载通电状态和系统失效状态等参数；
- 可通过 NFC Lighting APP 或 WiFi-RDM APP 设置 DMX 起始地址、地址模式和系统失效状态等参数；
- DALI 及 DMX 地址模式均支持设置 CH01/CH02/CH04/CH08 可实现单地址独立控制或单地址多通道控制；
- 无源继电器输出，可切换交流或直流负载回路，适配不同负载场景；
- 单通道最大支持 12A 电流，确保设备安全运行；
- 100-240V~ 宽电压供电；
- DIN 导轨安装，兼容标准 35mm DIN 导轨。



EMC LVD RoHS μ

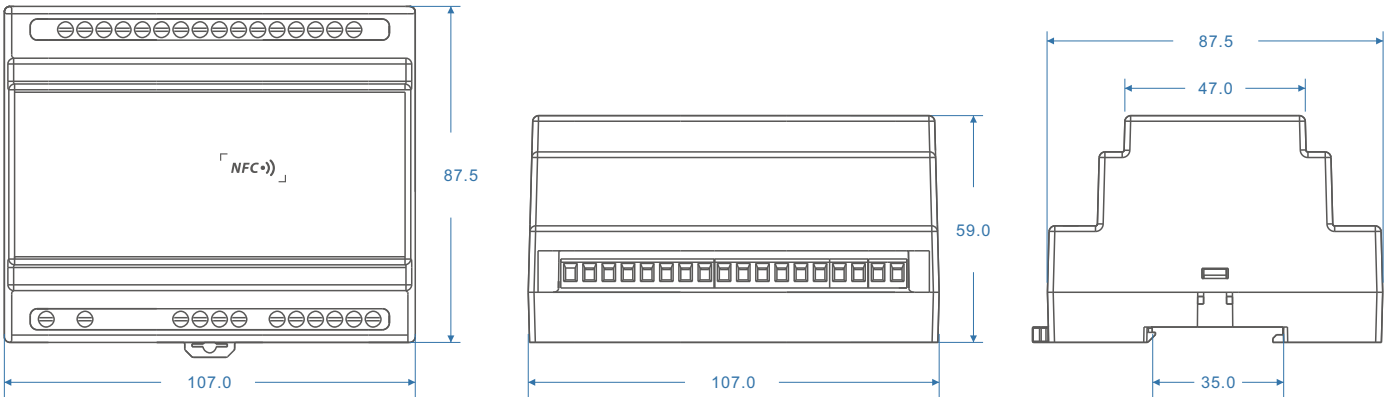


技术参数

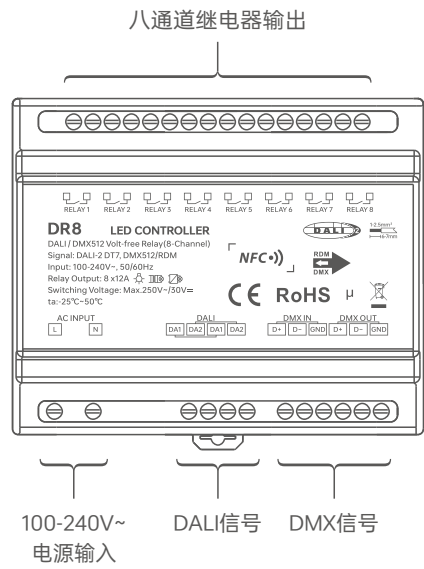
输入和输出	型号	DR8
	输入信号	DALI-2 DT7, DMX512/RDM
	输入电压	100-240V~,50/60Hz
	通道数量	8
	负载输出	Max. 8×12A (阻性负载、感性负载、容性负载)
	开关电压	Max. 250V~/30V=
	继电器抗浪涌电流	240A@3ms
环境	工作温度	-25°C ~ 50°C
保护	保护	过零保护
安规与电磁兼容标准	EMC标准(EMC)	ETSI EN 301 489-1 V2.2.3、ETSI EN 301 489-3 V2.3.2.
	安全标准(LVD)	IEC 61347-2-11:2024、IEC 61347-1:2024
	DALI-2 标准	IEC 62386-101,102,208
其他	产品尺寸	L107×W88×H59(mm)
	包装尺寸	L109×W94×H60(mm)
	重量(净重)	310克±10克

尺寸图

单位: mm

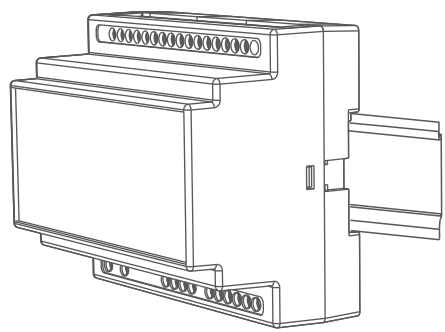


端子说明



安装方式

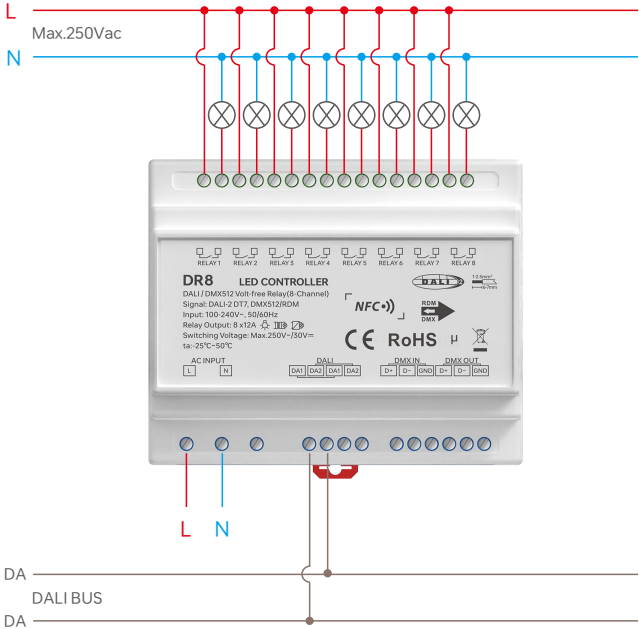
导轨安装 (轨道规格为TS-35/7.5或TS-35/15)



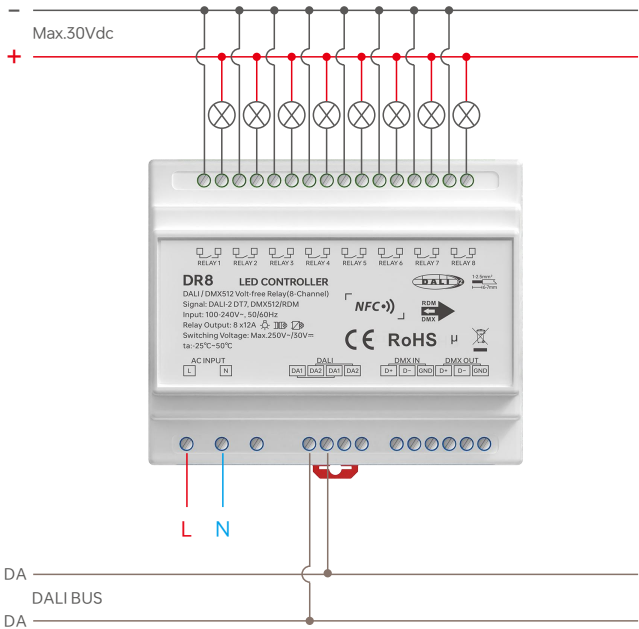
连接示意图

DALI应用

(1)交流负载输出接线



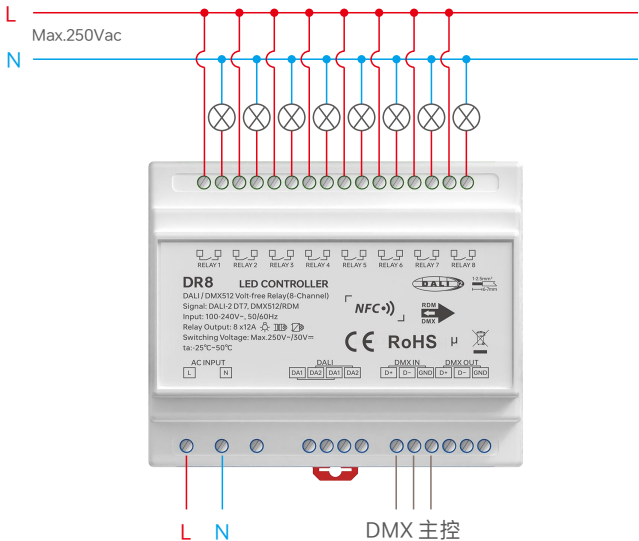
(2)直流负载输出接线



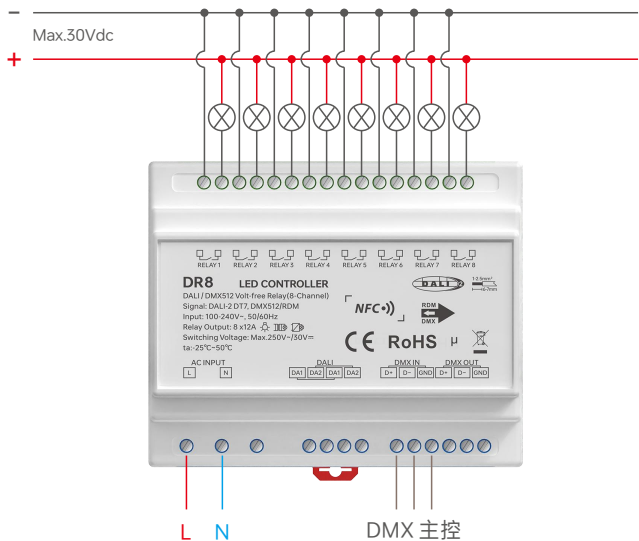
DMX应用

当DMX数据值为<50时，输出关闭；
当DMX数据值>200时，输出开启；
当DMX数据值在50-200之间时，输出保持之前开启/关闭状态。

(1)交流负载输出接线



(2)直流负载输出接线



模式地址设置表

通道	模式 地址号	CH01 1个地址	CH02 2个地址	CH04 4个地址	CH08 8个地址
通道1		1	1	1	1
通道2		1	1	1	2
通道3		1	1	2	3
通道4		1	1	2	4
通道5		1	2	3	5
通道6		1	2	3	6
通道7		1	2	4	7
通道8		1	2	4	8

搭配 WiFi-RDM APP 使用

1. DR8可以与遵从标准RDM协议的地址编辑器配合使用。

建议使用LTECH的RDM编辑器（型号WiFi-RDM01），可通过APP设置DR8的地址模式、系统失效状态、单播/多播等参数，具体请参看WiFi-RDM01的使用说明书。



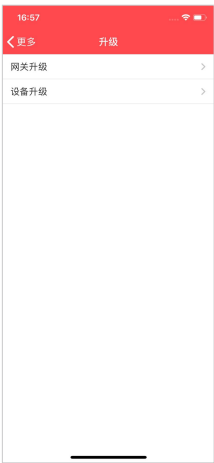
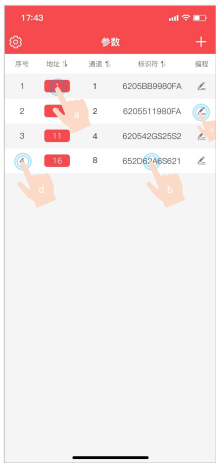
APP



* WiFi-RDM01编辑器与控制器不配套销售。

2.通过APP设置DMX地址、地址模式和系统失效状态。

地址模式：可设置CH01(1地址8通道)、CH02(2地址8通道)、CH04(4地址8通道)、CH08(8地址8通道)



- a: 点击“地址”对应方框可编辑地址；
- b: 点击“标识符”出现产品详细信息；
- c: 点击编程按钮“ ”则进入编辑界面；
- d: 点击序号发出识别命令。

搭配 NFC Lighting APP 使用

通过手机扫描下方二维码，按提示完成APP安装。

(因性能需求，要求手机型号苹果：iPhone 8及以上、且操作系统iOS13及以上；安卓：具备NFC功能机型)



* 设置驱动器参数时，必须在控制器断电情况下进行操作。

读/写智能电源

使用手机，通过NFC读取驱动器信息，根据需求设置参数后，可直接写入驱动器。

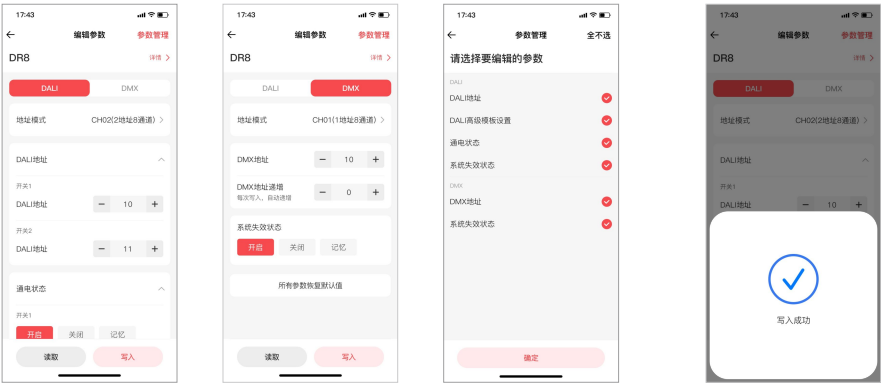
1. 读取驱动器

在APP“首页”点击【读/写智能电源】，将手机感应区域靠近控制器NFC感应区，读取控制器参数。



2. 编辑参数

点击【参数管理】可编辑设置DALI首地址、DALI高级模板、通电状态、系统失效状态、DMX地址模式、DMX首地址等更多高级参数。
DALI模式：可设置DALI地址模式、每通道的DALI地址、通电状态和系统失效状态。
DMX模式：可设置DMX地址模式、DMX地址、地址递增值和系统失效状态。
DMX控制：当DMX数据值为<50时，输出关闭；
当DMX数据值>200时，输出开启；
当DMX数据值在50-200之间时，输出保持之前开启/关闭状态。



3. 写入控制器

参数设置完成后，点击【写入】，将手机感应区域靠近控制器NFC感应区，即可写入控制器成功修改参数。



注意事项

- 请由具有专业资格的人员进行调试安装。
- 本产品（专有型号除外）不能防水防雷，需避免日晒雨淋，如安装在户外，请用防水箱和防雷装置。
- 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
- 安装时，避免靠近大面积金属物体，或堆叠摆放，以免信号干扰影响使用；
- 避免安装在雷区、强磁场和高压区域；
- 请检查使用的工作电压是否符合产品的参数要求。
- 使用的电线直径大小必须能足够负载连接的LED灯具，并确保接线牢固。
- 通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。
- 如果发生故障，请勿私自维修；如有疑问，请联系供应商。

* 本说明书的内容如有变更，恕不另行通知。若内容与您使用的功能有所不同，则以实物为准。如有疑问，请与供应商联系。

保修条例

- 自出厂之日起保修服务期为5年。
- 在保修服务期内出现产品质量问题我司将给予免费修理或更换服务。

非保修条例：

属下列情况不在免费保修或更换服务范围之内：

- 已经超出保修服务期；
- 过高电压、超负载、操作不当等人为造成的损坏；
- 产品外形严重损坏或变形；
- 自然灾害以及人力不可抗拒原因造成的损坏；
- 产品保修标签和产品唯一条形码损坏；
- 无我司签订的合同或发票凭证。

1. 修理或更换是我司对客户的一补救措施。我司不承担任何附带引起的损害赔偿，除非在适用法律范围之内。

2. 我司享有修正或调整本保修条款的权利，并以书面形式发布为准。