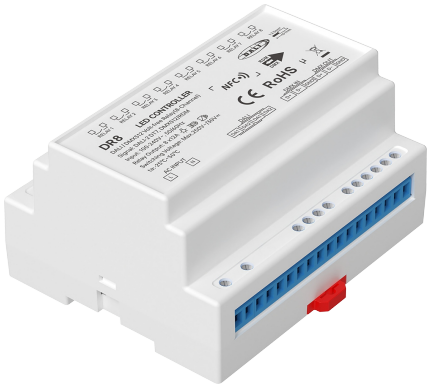


LED Controller DR8

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

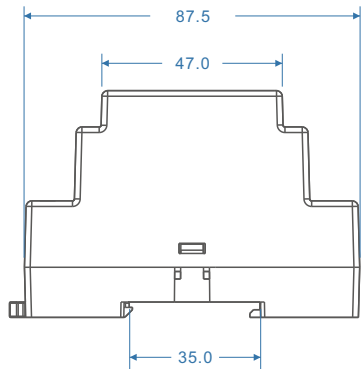
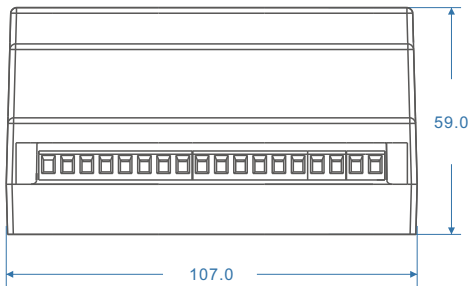
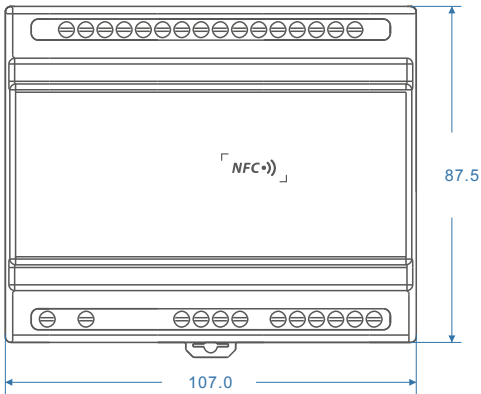


Technical Specifications

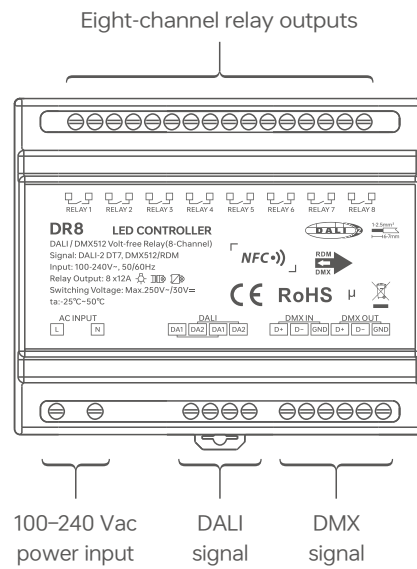
Input and Output	Model	DR8
	Input Signal	DALI-2 DT7, DMX512/RDM
	Input Voltage	100-240V~,50/60Hz
	Number of Channels	8
	Load Output	Max. 8×12A (resistive, inductive or capacitive loads)
	Switching Voltage	Max. 250V~/30V=
	Relay Inrush Current	240A@3ms
Environment	Operating Temperature	-25°C ~ 50°C
Protection	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

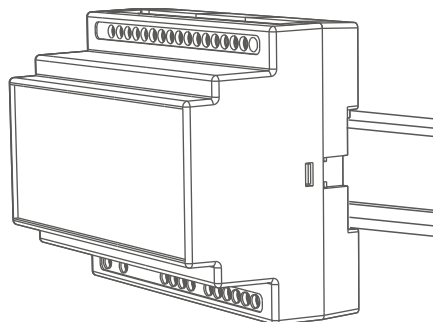


Terminal Description



Installation

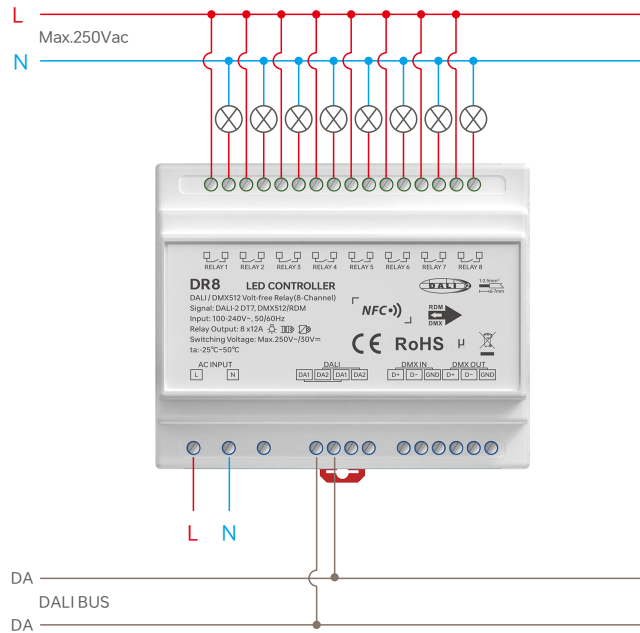
DIN-rail mounting. Compatible with TS-35/7.5 and TS-35/15 rails.



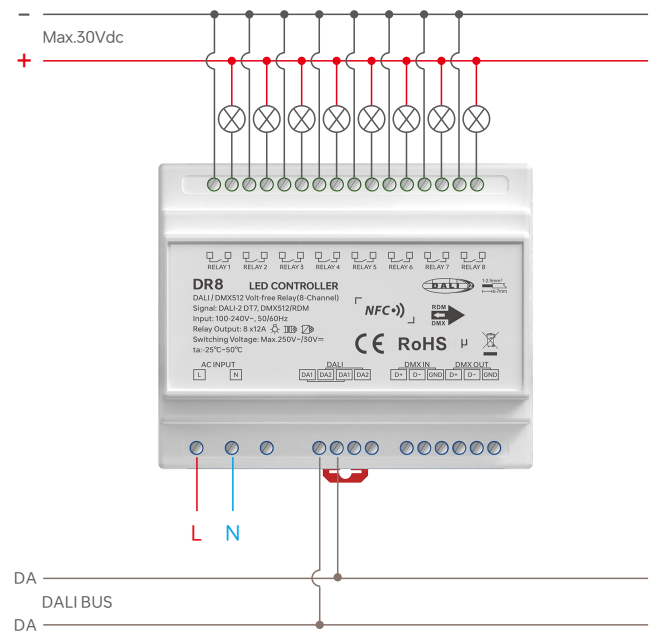
Wiring Diagrams

DALI Application

(1)AC load output wiring



(2)DC load output wiring



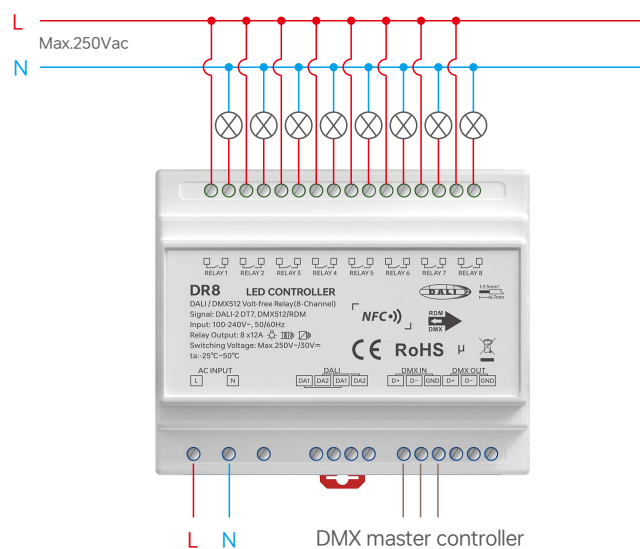
DMX Application

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

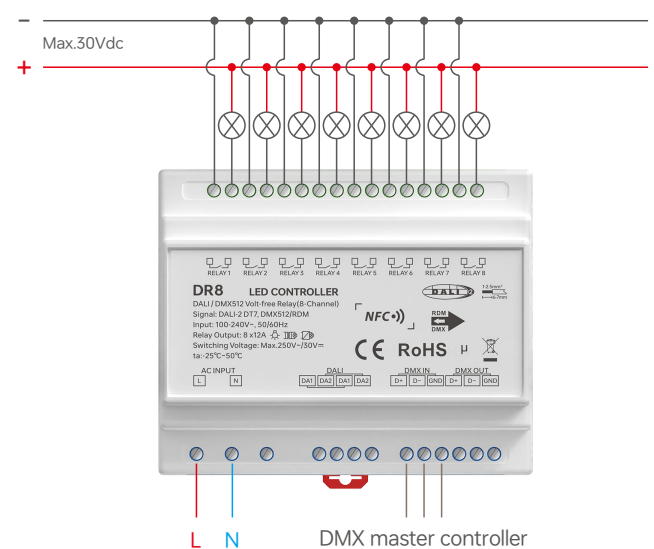
When the DMX data value is above 200, the output switches on.

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.



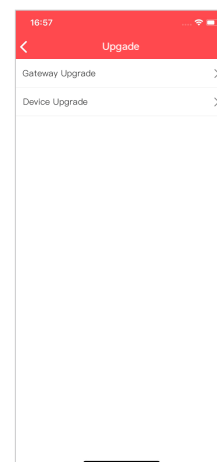
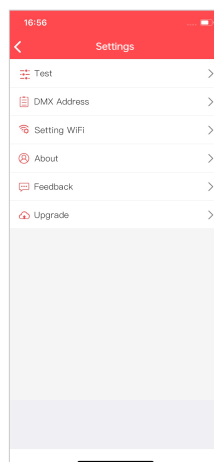
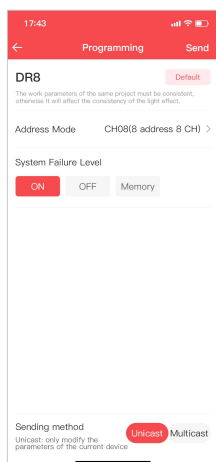
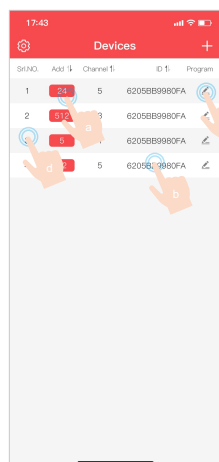
APP

* 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).



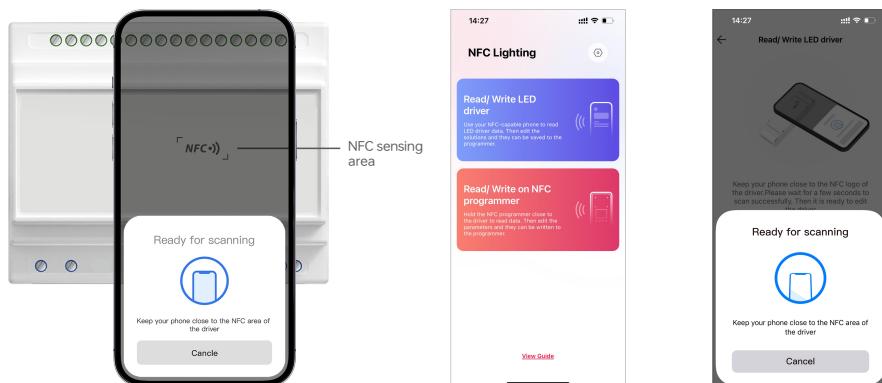
* Before you begin setting the parameters of the driver, please make sure the driver is powered off .

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.

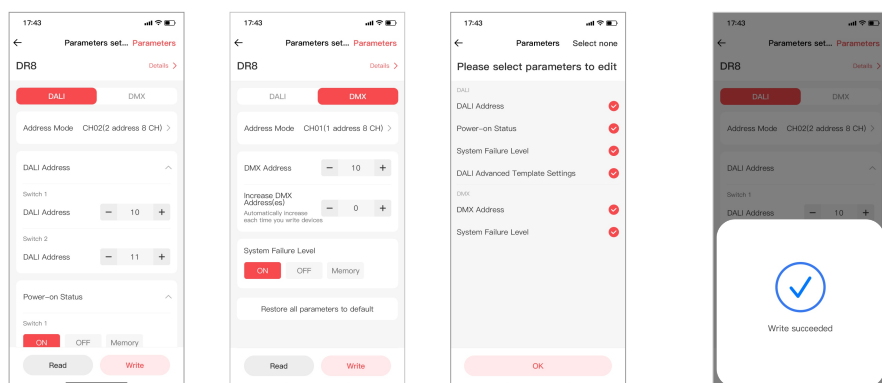
DMX Mode: The DMX address mode, DMX address, address increment and system failure state can be configured.

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.