



Product Specification

NAME: Rail DALI 0/1-10V dimmer
MODEL: DL109



Summarization

DALI (Digital Addressable Lighting Interface) is an international standard, popular lighting control protocol, With digital addressing dimming, stable, various dimming ways, easy to install, compatible with many big factories such characteristic.

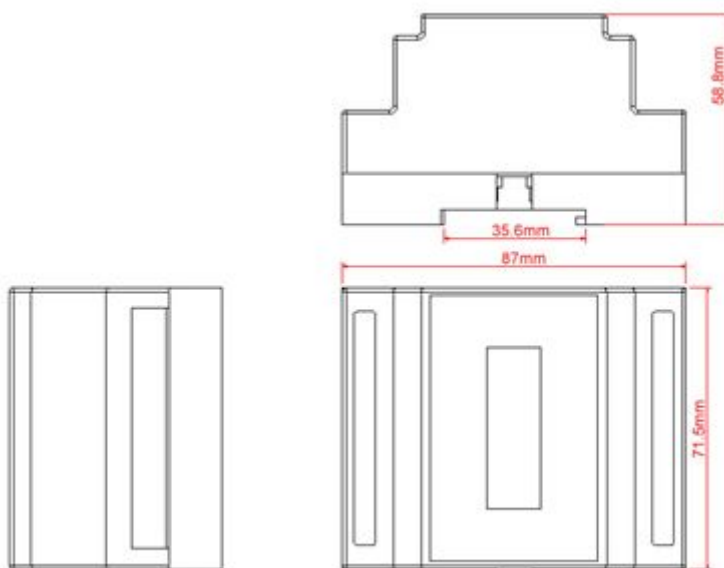
This product adopts a standard DALI dimming signal to 0-10V dimming signal, dimming using standard IEC62386. LED dimming with the traditional way of comparison, with adjustable light a wide range of diverse dimming, dimming of high precision, check the current status LED (for example current brightness, power intensity , the minimum support brightness, address, etc), easy distributed control and so on.

Technical parameters

- Supply voltage: AC90V-240V
- Load output: four channel 0/1V-10V signal output
- Dimming signal: DALI (IEC62386)
- Signal interface current: <2mA
- Dimming range: 0.1%-100%
- Working temperature: -20-60°C
- Gross weight: 201g
- Net weight: 163g
- External dimension: L87mm * W72mm * H59 mm
- Packing size: L100mm * W80mm * H75mm
- Relay output maximum current: 2A/ each channel



External Dimension:



Interface Specification:



① Power input interface; ② relay output interface for channel 1; ③ relay output interface for channel 2; ④ relay output interface for channel 3; ②③④⑤ can supply input power of 0/1-10V dimmer, to solve the problem that can not completely turn off the light; ⑥ is DALI signal interface; ⑦ is 0/1-10V output interface for channel 1; ⑧ is 0/1-10V output interface for channel 2; ⑨ is 0/1-10V output interface for channel 3 is the power input interface of controller; ⑩ is 0/1-10V signal output interface for channel 4;



Direction for use

1. Connect the load wire at first, following by the power wire; **Please ensure short circuit can not occur between connecting wire before you turn on the power**
2. This product use the protocol standard is IEC62386, through accept the orders sent by DALI host. It can realize to choose the output signal voltage range and dimming curve. The following is order choosing way:
 - A. Choose 0V-10V output, dimming curve choose linear dimming.
Controller output voltage range is 0-10V. Voltage is successive from low to high or from high to low curved linear.
 - B. Choose 1V-10V output, dimming curve choose linear dimming.
Controller output voltage range is 1-10V. Voltage is successive from low to high or from high to low curved linear.
 - C. Choose 0V-10V output, dimming curve choose logarithmic dimming.
Controller output voltage range is 0-10V, voltage successive from low to high or from high to low curved logarithmic.
 - D. Choose 1V-10V output, dimming curve choose logarithmic dimming.
Controller output voltage range is 1-10V, voltage successive from low to high or from high to low curved logarithmic.
3. Output signal voltage range and dimming curved setting inquire order as follow:

Command number	Command code	Command name
224	YAAA AAA1 1110 0000	Set output range 1-10V
225	YAAA AAA1 1110 0001	Set output range 0-10V
229	YAAA AAA1 1110 0101	Make the DTR number as dimming curve
238	YAAA AAA1 1110 1110	Inquire dimming curve
241	YAAA AAA1 1111 0010	Inquire output state
257	1010 0011 XXXX XXXX	Set DTR number

Notice: Before setting dimming curve, you should set the DTR number, and then set the DTR value as dimming curve. Only when value 0 as dimming curve value, it is logarithmic dimming; other values are linear dimming. When inquire the return value of dimming curve, value 0 means the current state is logarithmic dimming and value 1 is linear dimming.



Typical Application

