

HDL-MC64-DALI.431
64CH DALI Ballast Dimming Actuator

buspro

Datasheet

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Edition V1.0.0



Figure 1. 64CH DALI Ballast Dimming Actuator

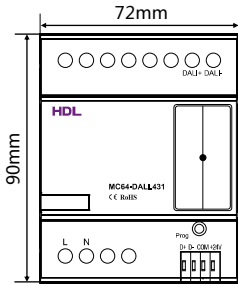


Figure 2. Dimensions - Front View

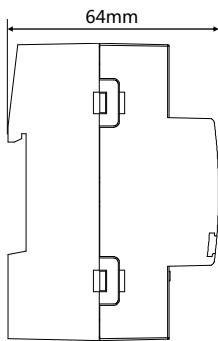


Figure 3. Dimensions - Side View

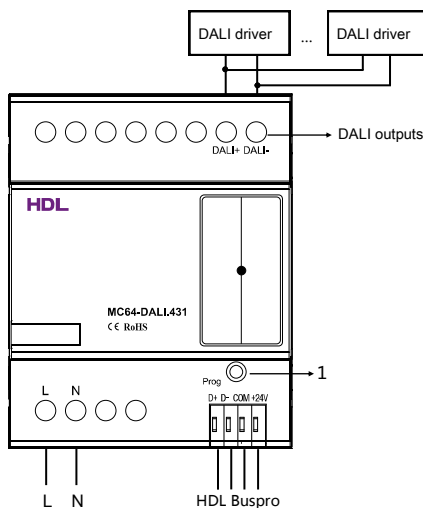


Figure 4. Wiring

Overview

With built-in DALI power supply and DALI Buspro, 64CH DALI Ballast Dimming Actuator (See Figure 1) supports up to 64 DALI ballasts. With scene control function, 16 zones, each with 16 scenes, can be established.

Its functions include:

- Gateway between HDL Buspro system and DALI Ballast
- Up to 64 DALI drivers supported
- Scene controller
- Up to 16 separate zones, zone dimming supported
- 16 scenes for each zone, up to 90.51s running time for each scene
- Low limit and high limit settable for each channel
- Status recall function
- Built-in DALI power supply insulates with HDL Buspro
- Color temperature control supported. Users can directly set the color temperature value or relatively adjust the color temperature.
- Enable to read the current color temperature value
- Scene control color temperature supported
- Short circuit protection for DALI wires
- Online update supported via HDL Buspro Setup Tool.

Components and Operation

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

1. Programming button & module indicator

Programming button & indicator: The indicator will flash when the device is working properly. Keep pressing the button for 3s, the ID can be read and modified via HDL Buspro Setup Tool.

Installation

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of the device on the edge of the DIN rail.

Step 3. Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.

Important Notes

- **HDL Buspro cable** - Dedicated HDL Buspro cable.
- **HDL Buspro connection** - Series connection (hand-in-hand recommended)
- **Check Connections** - Re-tighten all connections after installation.
- **Driver type** - DALI.
- There are no polar requirements for DALI Buspro.

⚠ Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device should be installed with DIN rail in DB box. HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.
- It is not allowed to exceed the range.

Package Contents

HDL-MC64-DALI.431*1 / Buspro connector*1 / Label*5 / Datasheet*1



Figure 5

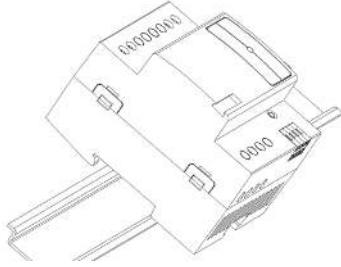


Figure 6

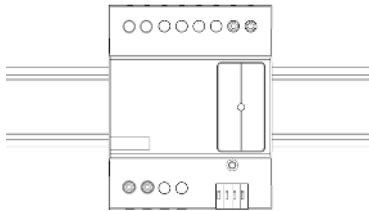


Figure 7

Figure 5 – 7. Installation

Technical Data

Basic Parameters

Working voltage	15~30V DC
Working current	15mA/24V DC
Input voltage	AC100-240V (50/60Hz)
Total number of drivers supported	64
Interface	HDL Buspro, DALI

External Environment

Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%

Specifications

Dimensions	72mm×90mm×64mm
Net weight	338g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

The symbol “-” indicates that the hazardous substance is not contained.

The symbol “o” indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.

The symbol “x” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

HDL Buspro Cable Guide

HDL Buspro	HDL Buspro Cable
DATA+	Yellow
DATA-	White
COM	Black
24V DC	Red

Technical support

E-mail: support@hdlautomation.com

Website: <https://www.hdlautomation.com>

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