

### Datasheet

Issued: May 7, 2019  
Edition: V1.0.0



Figure 1. 6CH 5A Intelligent LED Dimming Actuator

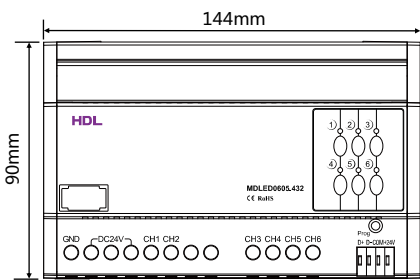


Figure 2. Dimensions - Front View

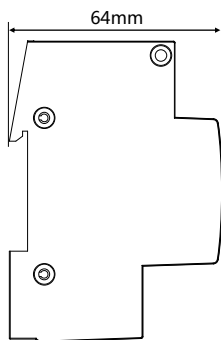
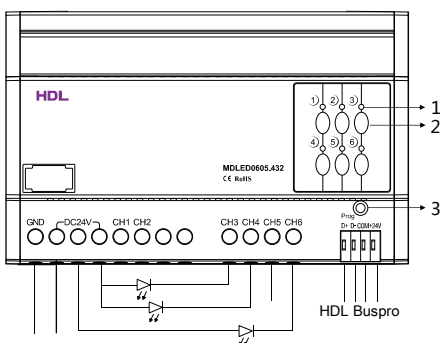


Figure 3. Dimensions - Side View



DC12-30V Power input

Note: Take the connection of channel 3, 4 and 6 as an example

Figure 4. Wiring

## Overview

6CH 5A Intelligent LED Dimming Actuator (See Figure 1) can be used to control the LED light which has constant voltage. It has 6 output channels, each channel has a bypass button for manual control. Scene and sequence functions are available.

## Functions

- Up to 6 separate zones, up to 12 scenes in each zone
- Each area has 1 sequence, each sequence has 12 steps, running time for each step is 60 minutes, the sequence has 4 running modes: "forward", "backward", "forward and backward", "random"
- Low, high, max threshold for each channel, applicable for different load
- Bypass button for manual control is available for each channel
- A specific scene or the scene before power off can be chosen when the device restarts.
- Short circuit and over current protection are available
- Maximum current in each channel: 5A
- PWM constant voltage output
- Supports easy programming
- Supports HDL Buspro online upgrading

## Important Notes

- Buspro cable - CAT5E or dedicated HDL Buspro cable
- Buspro connection - Series connection (hand-in-hand recommended)
- Load type - Constant voltage LED light, need to connect extra power supply to match the voltage of LED light
- Connection checking - Check all connections after installation
- Output channel - Max current of output channel is 5A
- 24V DC input - This is the working power supply for loads, the input voltage should be less than 30V DC. It is not allowed to use the power from HDL Buspro interface
- Connection for multi lights - Parallel connection

## Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

1. Load status indicator
2. Bypass button
3. Programming button & module Indicator

The indicator will flash when the device is running properly. Keep pressing the button for 3 seconds, the address of the module can be read and modified via HDL Buspro Setup Tool.

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of the 6CH 5A Intelligent LED Dimming Actuator 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.

## 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.
- CAUTION - Risk of Electric Shock - More than one disconnect switch may be required to de-energize the equipment before servicing.
- It is not allowed to exceed the range.

## Package Contents

HDL-MDLED0605.432\*1 / Buspro connector\*1 / Label\*5 / Datasheet\*1



Figure 5

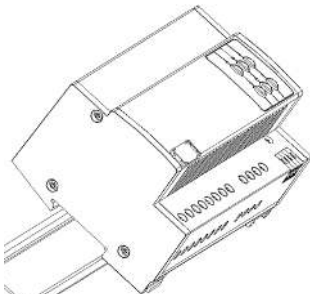


Figure 6

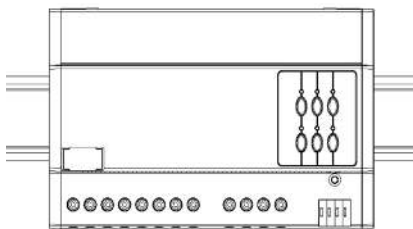


Figure 7

Figure 5 – 7. Installation

## Technical Data

### Basic Parameters

Working voltage	15~30V DC
Working current	40mA/24V DC
LED output channel	6CH/5A
LED input voltage	12~30V DC

### External Environment

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

### Specifications

Dimensions	144mm×90mm×64mm
Net weight	351g
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	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue white/Green white
COM	Black	Brown white/Orange white
24V DC	Red	Brown/Orange

#### Technical support

E-mail: [support@hdlautomation.com](mailto:support@hdlautomation.com)

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

©Copyright by HDL Automation Co., Ltd. All rights reserved.  
Specifications subject to change without notice.