



HDL-MD0403.432 4CH 3A Leading Edge Dimming Actuator

# buspro

#### Datasheet

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Figure 1. 4CH 3A Leading Edge Dimming Actuator

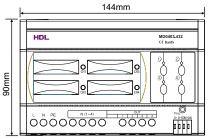


Figure 2. Dimensions - Front View

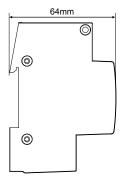
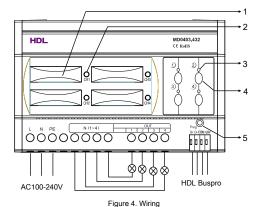


Figure 3. Dimensions - Side View



Overview

4CH 3A Leading Edge Dimming Actuator (See Figure 1) supports AC220V and AC110V power input. It has 4 output channels and each channel has a bypass button for manual control. Fuse protection is available for each channel, so that the dimmer will be protected in case of short circuit. LED indicators are available for indicating whether a short circuit occurs in the channel.

#### **Functions**

- Up to 4 separate zones; up to 12 scenes for each zone
- Up to 6 sequences and each sequence has 12 steps
- 4 dimming curves with 512 dimming accuracy
- Low, high, max threshold for each channel
- Bypass button for manual control is available for each channel
- Selected scene or scene before power off can be activated automatically when the device restarts
- Short circuit and overheating protection
- Up to 3A of each channel, 8A fuse of each channel for protection (aR type)
- Supports HDL Buspro online upgrade

### **Important Notes**

- Buspro cable CAT5E or dedicated HDL Buspro cable
- Buspro connection Series connection (hand-in-hand recommended)
- The PE terminal should be connected.
- Two types of power input can be chosen via HDL Buspro Setup Tool 2: 220V AC or 110V AC.
- Connection checking Check all connections after installation
- Output channel The current of each channel can not exceed 3A.
- Fuse Cut off the power of the dimmer when replace the fuse. The fuse to replace the broken one must be of the same type (aR type).
- Load types Incandescent light, halogen light, low-voltage halogen light, LED light, etc. The loads must be suitable for leading edge dimming.
- Make sure the working temperature of the dimmer does not exceed 45 °C.

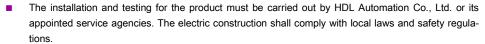
#### **Product Information**

#### Dimensions - See Figure 2 - 3 Wiring - See Figure 4

- 1. Fuse socket
- 2. Fuse indicator
- 3. Load status indicator
- 4. Bypass button
- 5. Programming button & module indicator

Programming button & indicator: The indicator will flash when the device is in working mode. Keep pressing the button for 3 seconds, the ID can be read and modified via HDL Buspro Setup Tool 2.

### Safety Precautions ...



- The device should be installed with DIN rail in DB box. HDL will not be responsible for any consequence caused by the inexpert or faulty installation and wiring methods, which are not in accordance with the instructions contained in this operating instruction.
- Please do not privately disassemble or replace any parts of the product. Otherwise, it may cause mechanical fault, electric shock, fire or personal injuries.
- Please contact our after-sales departments or our designated service agencies for your maintenance service. Product failures caused by private disassembly are not subject to this warranty.
- It is not allowed to exceed the range.

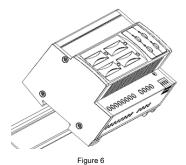
#### **Package Contents**

HDL-MD0403.432\*1 / Buspro connector\*1 / Fuse\*2 / Datasheet\*1



Figure 5





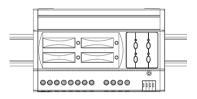


Figure 7

Figure 5 – 7. Installation

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Technical Data		
Basic Parameters		
Working voltage	15~30V DC	
Working current	28mA/24V DC	
Input voltage	AC100-240V (50/60Hz)	
Output channel	4CH/3A	
Maximum total output current	10A	
Fuse	8A aR type	
Dimming mode	TRIAC, minimum load 40W	
Dimming curves	Linear, 1.5 exponent, 2.0 exponent, 3.0 exponent	
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	715g	
Housing material	Nylon, PC	
Installation	35mm DIN rail installation (See Figure 5 - 7)	
Protection rating (Compliant with EN 60529)	IP20	
Approved		
CE		
D-110		

RoHS

## **HDL Buspro Cable Guide**

HDL Buspro	HDL Buspro Cable	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue white/Green white
СОМ	Black	Brown white/Orange white
24V DC	Red	Brown/Orange

#### Installation

#### Installation - See Figure 5 - 7

- Step 1. Fix the DIN rail with screws.
- Step 2. Buckle the bottom cap of the 4CH 3A Leading Edge 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.