HDL®

HDL-MD0602.432

6CH 2A Leading Edge Dimming Actuator

buspro

Datasheet

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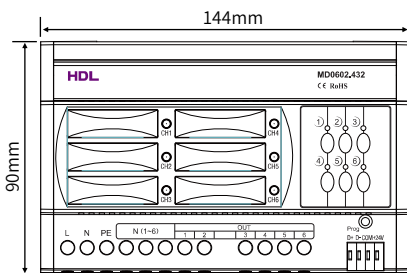Figure 1. 6CH 2A Leading Edge Dimming Actuator
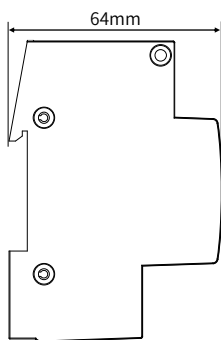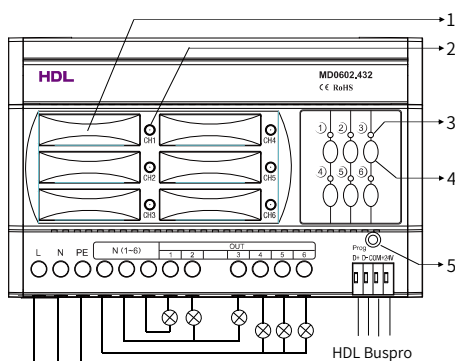

Figure 2. Dimensions - Front View

Figure 3. Dimensions - Side View

AC100~240V

Figure 4. Wiring

Overview

6CH 2A Leading Edge Dimming Actuator (See Figure 1) supports AC220V and AC110V power input. It has 6 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 6 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 2A of each channel, 4A 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 2A.

■ 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 ⚠ WARNING

■ The installation and testing for the product must be carried out by HDL Automation Co., Ltd. or its appointed service agencies. The electric construction shall comply with local laws and safety regulations.

■ 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

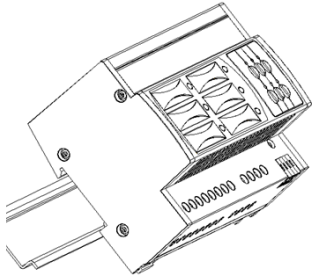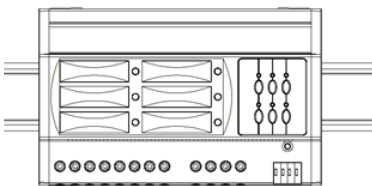HDL-MD0602.432*1 / Buspro connector*1 / Fuse*2 / Datasheet*1

Figure 5

Figure 6

Figure 7

Figure 5 - 7. Installation

Technical Data

Basic Parameters

Working voltage	15~30V DC
Working current	28mA/24V DC
Input voltage	AC100~240V, 50/60Hz
Output channel	6CH, 2A/CH
Maximum total output current	10A
Fuse	4A 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	813g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

Approved

CE

RoHS

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

Installation

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of the 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.