HDL-MW02.431

2CH Motorized Curtain Control Module

buspro

Datasheet

Issued: May 7, 2019

Edition: V1.0.0



Figure 1. 2CH Motorized Curtain Control Module

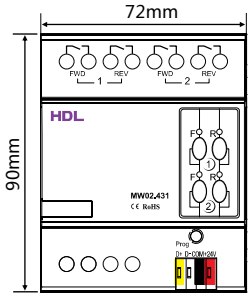


Figure 2. Dimensions - Front View

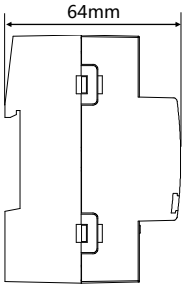


Figure 3. Dimensions - Side View

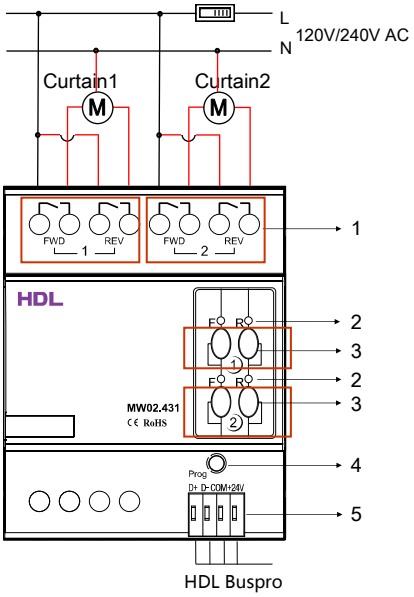


Figure 4. Wiring

Overview

2CH Motorized Curtain Control Module (See Figure 1) is specially designed for controlling 2ch curtains (shutters) through the controlling of AC motor. Users can make inching control for the shutters, set working time for each channel independently. Operation can be done on iPad and iPhone.

Functions

- 2-channel curtain control
- Hardware/software interlock for motor protection
- Curtain working time settable
- Control/Inching control of shutter
- Easy programming
- HDL Buspro online update

Important Notes

- Installation - Distribution box
- Buspro cable - CAT5E or dedicated HDL Buspro cable
- Buspro connection - Series connection (hand-in-hand recommended)
- Output circuit - Maximum current of each channel is 5A

Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

1. Curtain control terminals
   FWD: Controls the forward direction of motor
   REV: Controls the reverse direction of motor
2. LED indicator: Normally on when motor working
3. Buttons: Manually press the button for controlling local curtains
   F : Control Curtain 1 or 2, FWD/STOP control,
   R : Control Curtain 1 or 2, REV/STOP control
4. Module indicator & programming button: The indicator flickers when the module is working properly. Press the button for 3s to read and modify the module address via HDL Buspro Setup Tool.
5. HDL Buspro interface

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of the 2CH Motorized Curtain Control Module 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.
- It is not allowed to exceed the range.
- CAUTION - Risk of Electric Shock - More than one disconnect switch may be required to de-energize the equipment before servicing.
- The marking appears on the device, shown below shall be used to indicate that the device is for use with copper wire. The marking shall be legible with letters at least 2.4 mm high. “Use copper wire only”, “Cu wire only” or equivalent wording, or a marking containing both the symbols as the illustrations.



Package Contents

HDL-MW02.431*1 / Buspro connector*1 / Label*5 / Datasheet*1



Figure 5

1

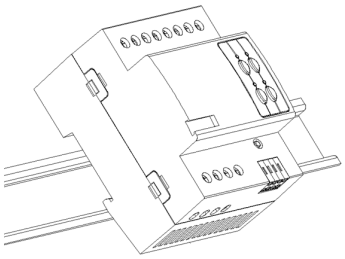


Figure 6

2

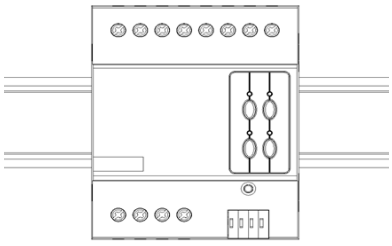


Figure 7

Figure 5 – 7. Installation

Technical Data

Basic Parameters	
Working voltage	15~30V DC Class 2
Working current	35mA/24V DC
Input voltage	120V/240V AC (50/60Hz)
Maximum current of each channel	5A
Electronic life time of relay	>60000 (Resistance load)
AC motor type	Single-phase capacitor
External Environment	
Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%
Specifications	
Dimensions	72mm×90mm×64mm
Net weight	250g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

Recommended Load Types and Power
240V, 5A, General Use, 30,000 cycles, 40°C;
240V, 1.6FLA/9.6LRA, Motor (PF>=0.6), 30,000 cycles, 40°C;
120V, 5A, General Use, 30,000 cycles, 40°C;
120V, 1.6FLA/9.6LRA, Motor (PF>=0.6), 30,000 cycles, 40°C;

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	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o
IC	o	o	o	o	×	×

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 “×” 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

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