

HDL-MPR0310.40 3CH 10A Flush-mounted Switching Actuator



Datasheet

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Figure 1. 3CH 10A Flush-mounted Switching Actuator

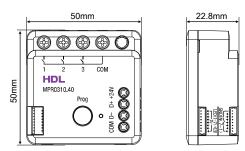


Figure 2. Dimensions - Front View Figure 3. Dimensions - Side View

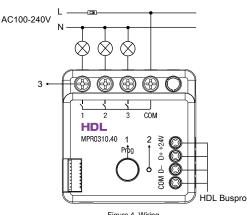
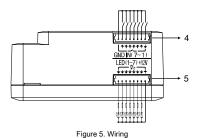


Figure 4. Wiring



# **Overview**

3CH 10A Flush-mounted Switching Actuator (See Figure 1) is a smart relay executive module installed in the wall box of the Chinese standard panel. The actuator has the characteristics of exquisite structure and rich circuits. The actuator adopts HDL Buspro protocol 485 Bus communication control, with 3CH 10A relay control channels, 7 dry contact signal input channels and 7 LED signal output channels. In conjunction with the corresponding dry contact panel, the actuator enables smart control of electrical devices, for example, home lighting, curtain, fan, sockets, etc.

Its main features include:

- With 3CH 10A TV8 relay switch control channels
- With 7 dry contact switch signal input channels, 7 LED switch signal output channels
- With programming button and programming indicator, short press the programming button to control all relay channels on/off

# **Components and Operation**

### Dimensions - See Figure 2 - 3

#### Wiring - See Figure 4 - 5

- 1. Programming button: short press the programming button to control all relay channels on/off
- 2. Programming button indicator
- 3. Connection terminal of relay channels
- 4. Dry contact input interface
- 5. LED output interface

## Installation

### Installation - See Figure 6 - 7

Step 1. Mount the wall box (Chinese standard wall box with 70mm depth) in the wall and draw the AC power cable and Buspro cable.

Step 2. Make correct wiring for AC power cable and Buspro cable.

Step 3. Put the actuator in wall box with facing outward, and bend the AC power cable and Buspro cable into the wall box.

Step 4. Plug in the cable between the actuator and the dry contact panel.

Step 5. Mount the panel on the wall box with screws.

## Note(s)

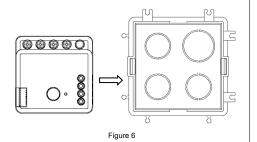
- Buspro cable CAT5E or HDL dedicated Buspro cable
- Buspro connection Hand-in-hand recommended
- Installation - Chinese standard wall box (with the recommended depth of 70mm), the specific use is determined according to the actual wiring plan.
- Please ensure correct wiring and connection.
- To protect the actuator and loads, it is recommended to connect a 10A circuit breaker to each relay channel.
- Each LED output channel needs to be connected a resistor in series to the LED (680Ω-1kΩ resistor is recommended).
- If a resistive load is connected to the relay channel, the maximum load is 10A, and if a capacitive load is connected to the relay channel, the maximum load is 6A.
- Please use the actuator according to technical data.

# Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization des-ignated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- 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.

## Package Contents

HDL-MPR0310.40\*1 / Cable\*2 / Datasheet\*1



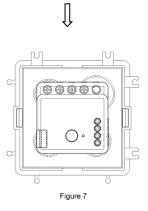


Figure 6 - 7. Installation

# **Technical Data**

Basic Parameters				
Working voltage	15~28V DC			
Working current	96mA/24V DC			
Relay channel	3CH, 10A/CH (AC100-240V, 50/60Hz)			
Dry contact	7CH dry contact input			
LED	7CH LED output, 12mA/CH			
Communication	HDL Buspro			
Cable diameter of Buspro terminal	0.6-0.8mm			
External Environment				
Working temperature	-5°C~45°C			
Working relative humidity	≤90%			
Storage temperature	-20°C~60°C			
Storage relative humidity	≤93%			
Specifications				
Dimensions	50mm×50mm×22.8mm			
Net weight	59g			
Housing material	Flame retardant PC			
Installation	Wall box (Figure 6 - 7)			
Protection rating (Compliant with EN 60529)	IP20			

## Name and Content of Hazardous Substances in Products

	Hazardous substances					
Components	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers ( PBDE )
Plastic	0	0	ο	0	0	0
Hardware	0	0	ο	0	-	-
Screw	0	0	0	×	-	-
Solder	×	0	0	0	-	-
PCB	×	0	0	0	0	0
IC	0	0	ο	0	×	×

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	
СОМ	Black	Brown white/Orange white	
24V DC	Red	Brown/Orange	

### Technical support

E-mail: hdltickets@hdlautomation.com Website: https://www.hdlautomation.com

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