HDL-M/W04.10.1
4CH 10A Curtain Actuator
Hardware Version: B

Datasheet
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Edition: V1.0.0



Figure 1. KNX 4CH 10A Curtain Actuator

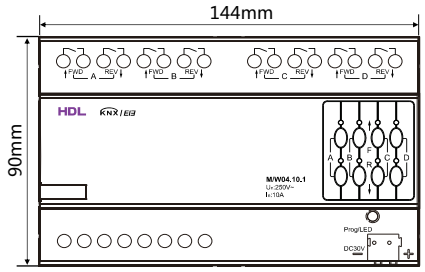


Figure 2. Dimensions - Front View

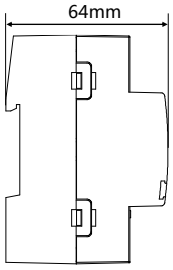


Figure 3. Dimensions - Side View

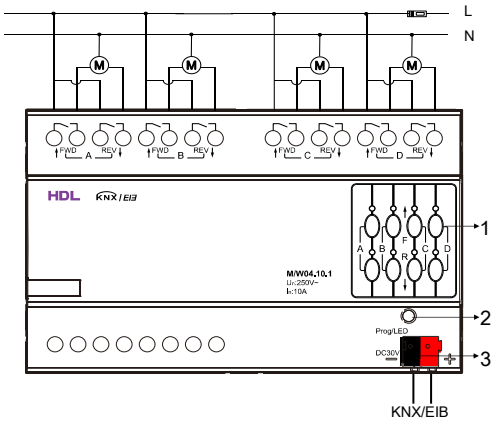


Figure 4. Wiring

Overview

KNX 4CH 10A Curtain Actuator (See Figure 1) is in full compliance with Chinese and European safety standards and KNX protocol. This series of products have the characteristics of high power (10A), low consumption and high reliability.

Functions

- Each channel can control the upward, downward and stop operation of the curtain, and can be controlled manually. Up to 10A output for each channel
- Control types: Blinds operation mode, Curtain operation mode, Manual operation, Priority setup, Power-on status recall, Power-off status saving, Forced position operation, Limit position control, Status response for position, Operation status, Scene control, Safety control, Automatic control.

Important Notes

- Installation - Distribution box
- Programming - This device is compliant with the KNX standard and can only be programmed by ETS software.
- Output channel - Maximum current of each relay channel: 10A
- Protection - A 10A breaker or fuse should be connected to the output load channel.

Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

1. Manual button
2. KNX programming button/indicator: Red LED indicates programming mode.
3. KNX/EIB interface.

Installation

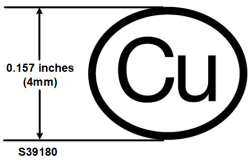
Step 1. Fix the DIN rail with screws.

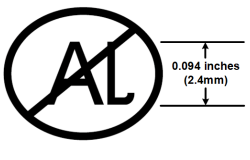
Step 2. Buckle the bottom cap of the actuator on the edge of the DIN rail.

Step 3. Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.

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-M/W04.10.1*1 / Label*5 / Datasheet*1

Technical Data

Basic Parameters	
Working voltage	21~30V DC Class 2
Working current	12mA/30V DC
Input voltage	120V/240V AC (50/60Hz)
Output channel	4CH/10A
Communication	KNX
Output terminal	Line in, line out cable for each channel 2.5-4mm²
Cable diameter of KNX terminal	0.6 - 0.8mm
Electrical life time	>100000
Mechanical life time	>100000
External Environment	
Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%
Specifications	
Dimensions	144mm×90mm×64mm
Net weight	362g
Housing material	Nylon (PA66)
Installation	35mm DIN rail installation
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	×	-	-
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.

KNX Cable Guide

KNX	KNX Cable
+	Red
-	Black

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