HDL-M/DA6.10.1
KNX 6CH 10A 0~10V Dimming Actuator
Hardware Version: A

Datasheet
Issued: July 16, 2019
Edition: V1.0.0



Figure 1. KNX 6CH 10A 0~10V Dimming Actuator

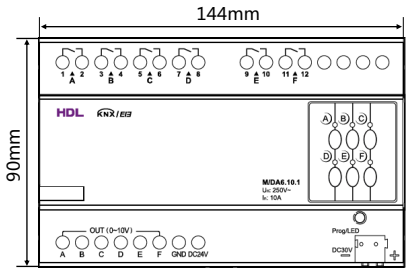


Figure 2. Dimensions - Front View

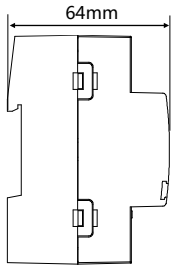


Figure 3. Dimensions - Side View

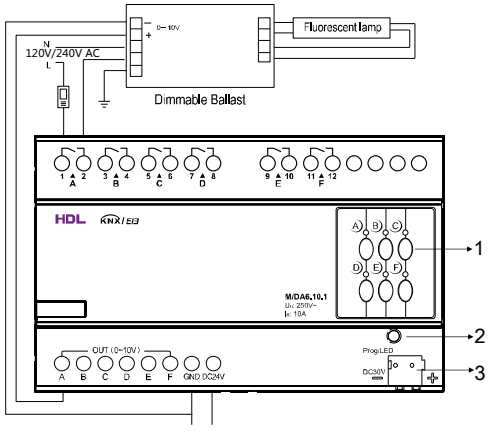


Figure 4. Wiring

Overview

KNX 6CH 10A 0~10V Dimming Actuator (See Figure 1) supports 6-channel 0/1-10V dimming, and each circuit is equipped with10A relay synchronous control to turn it on and off. The buttons can be manually controlled to control the switch and dimming. Both current absorbing and output ballasts can be used.

Functions

- Supports 6-channel 0/1-10V dimming, and each circuit is equipped with 10A relay synchronous control to turn it on and off. The buttons can be manually controlled to control the switch and dimming.
- Control types: Statistical total ON time, Status response, Status recovery, Staircase light, Flashing light, Scene control, Dimming upper limit, Dimming lower limit, Sequence control, Threshold switch, Heating control (PWM)

Important Notes

- Installation - Distribution box
- Programming - The device is compliant with the KNX standard and the parameters are set by the Engineering Tool Software (ETS).
- Output channel - Maximum switching load current of the output 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 - See Figure 5 - 7

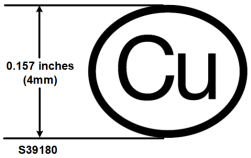
Step 1. Fix the DIN rail with screws.

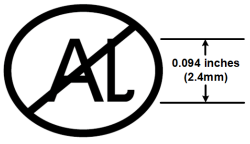
Step 2. Buckle the bottom cap of the 6CH 10A 0~10V Dimming Actuator on the edge of the DIN rail.

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

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/DA6.10.1*1 / Label*5 / Datasheet*1



Figure 5

1

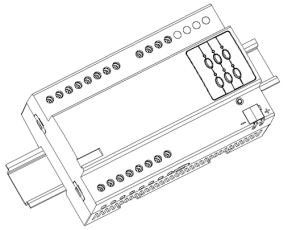


Figure 6

2

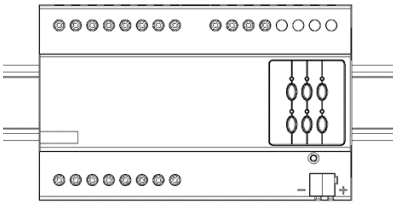


Figure 7

Figure 5 - 7. Installation

Technical Data

Basic Parameters	
Working voltage	21~30V DC Class 2
Working current	15mA/30V DC
Input voltage	120V/240V AC (50/60Hz)
Output channel	6CH/10A
Dimming output	0~10V DC, 24mA/CH
Communication	KNX/EIB
Shut-off way	Impulse type self - locking relay shut-off way
Cable diameter of KNX terminal	0.6 - 0.8mm
Electrical life time	>100000
Mechanical life time	>1000000
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	449g
Housing material	Nylon
Installation	35mm DIN rail installation (See Figure 5 - 7)
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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