M/MHR17U.1

KNX 17CH Mix Actuator

Hardware Version: A

Datasheet

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Figure 1. KNX 17CH Mix Actuator

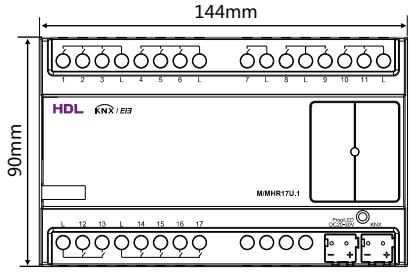

Figure 2. Dimensions - Front View

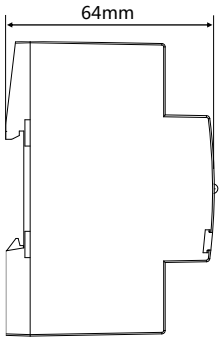

Figure 3. Dimensions - Side View

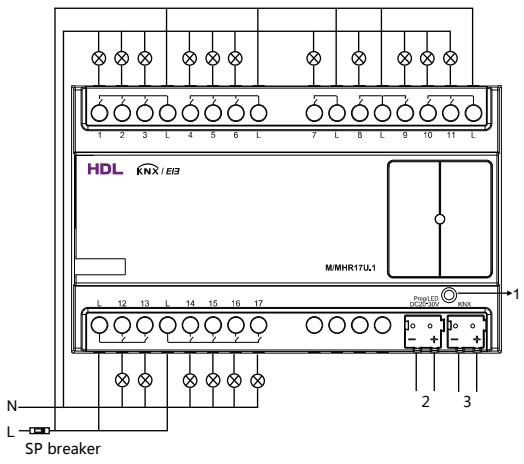

Figure 4. Wiring

Overview

KNX 17CH Mix Actuator (See Figure 1) is used for controlling relays, dimmers, curtains and air conditioners.

The actuator supports 17CH control channels.

Its main features include:

- Supports 17CH relay control channels
- Among the 17 relay control channels, CH1-6 and 12-17 are TV8 5A relays, and CH7-11 are magnetic latching relays with an operating current of 10A.
- The 17 relay control channels can be connected to loads, for example, incandescent lamps, halogen lamps, and LED lamps, etc. They can be used for fan speed control or mode control of air-conditioning, and curtain control (supporting inching control).

Components and Operation

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

1. Programming button / LED indicator
   The red LED indicator indicates programming mode.
2. Auxiliary power supply: 20~30V DC input
3. KNX interface

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.

Note(s)

- Installation - Distribution box
- KNX Bus voltage - 21~30V DC, no AC power supply allowed
- Programming - This device is compliant with the KNX standard and can only be programmed by ETS software.

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.

Package Contents

M/MHR17U.1*1 / Label*5 / Datasheet*1

Figure 5

1

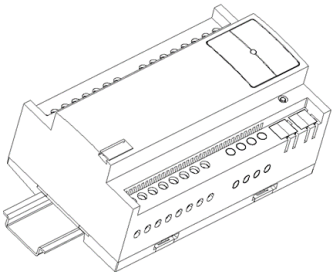

Figure 6

2

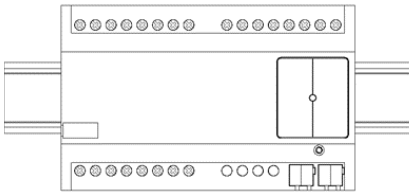

Figure 7

Figure 5 - 7. Installation

Technical Data

Basic Parameters	
Working voltage	21~30V DC
Working current	14mA/30V DC
Auxiliary voltage	20~30V DC
Auxiliary current	97mA/30V DC
Input voltage	AC100-240V (50/60Hz)
Output channel	12CH/5A TV8 relay (CH1-6, CH12-17)
	5CH/10A Magnetic latching relay (CH7-11)
Communication	KNX
Cable diameter of KNX terminal	0.6-0.8mm
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	469g
Housing material	PA66
Installation	35mm DIN rail installation (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
-	Black
+	Red

Technical support
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