

M/FME1D.1

KNX 1CH 1A Flush-mounted Dimming Actuator (EU)

Hardware Version: A



Datasheet

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File Edition: A



Figure 1. KNX 1CH 1A Flush-mounted Dimming Actuator (EU)

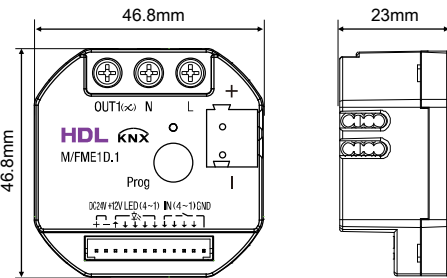


Figure 2. Dimensions - Front View Figure 3. Dimensions - Side View

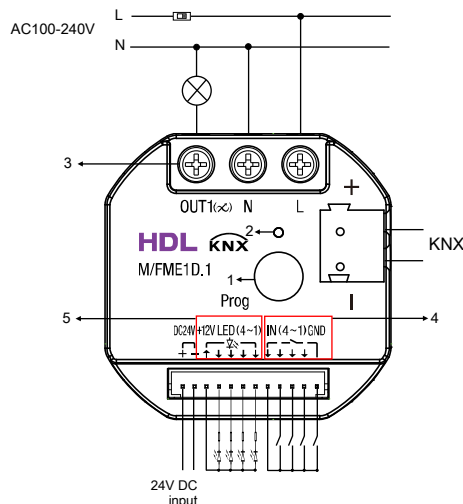


Figure 4. Wiring

Overview

KNX 1CH 1A Flush-mounted Dimming Actuator (EU) (See Figure 1) is an actuator with 1CH 1A dimming control channel, 4 dry contact input channels and 4 LED output channels. In conjunction with the corresponding dry contact panel, the actuator enables smart dimming control of home lighting.

Its main features include:

- Supports 1CH 1A relay dimming control channel
- 4 dry contact input channels and 4 LED output channels
- Programming buttons and programming indicators available
- Short press the programming button to enter the programming mode, the red indicator is always on in the programming mode; long press the button to control all the dimming channels on/off.
- With scene control, staircase light control, dimming control functions

Components and Operation

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

1. Programming button: Short press the programming button to enter the programming mode, the red indicator is always on in the programming mode; long press the button to control all the dimming channels on/off.
2. Programming button indicator
3. Connection terminal of dimming channel
4. Dry contact input interface
5. LED output interface

Installation

Installation - See Figure 5 - 6

Step 1. Mount the EU wall box in the wall and draw the AC power cable and KNX Bus cable.

Step 2. Make correct wiring for AC power cable and KNX Bus cable.

Step 3. Put the actuator in wall box with facing outward, and bend the AC power cable and KNX Bus 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)

- Installation - EU wall box. If the actuator is installed with the panel, it is recommended to install in the wall box at the edge (not hand-in-hand connection position), and the back of the panel should not thicker than 25mm. The specific use is determined according to the actual wiring plan.
- 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.
- To protect the actuator and loads, it is recommended to connect a 1A circuit breaker to the dimming channel.
- Each LED output channel needs to be connected a resistor in series to the LED (680Ω-1kΩ resistor is recommended).



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.
- 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/FME1D.1*1 / Cable*1 / Datasheet*1

Technical Data

Basic Parameters

Working voltage	21~30V DC
Working current	25mA/30V DC
Auxiliary voltage	20~30V DC
Auxiliary current	25mA/24V DC
Dimming channel	1CH, 1A/CH (AC100-240V, 50/60Hz)
Dry contact	4CH dry contact input
LED	4CH LED output, 12mA/CH
Communication	KNX
Cable diameter of KNX 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	46.8mm×46.8mm×23mm
Net weight	37g
Housing material	Flame retardant PC
Installation	Wall box (Figure 5 - 6)
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	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

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 "x" 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

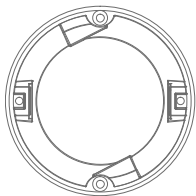


Figure 5

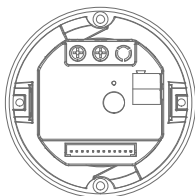


Figure 6

Figure 5 - 6. Installation

Technical support

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