

## 4/8 0-10V Dimming Actuator Channel

AX/G-DE4.10.1

AX/G-DE8.10.1

### Functional Description

- Scene Group Control: 16 scene groups in total, each supporting 64 scenes.
- Sequence Control: 5 sequence functions in total, each supporting 16 steps..
- Dimming Function: Supports Relative Dimming and Absolute Dimming
- Time Functions: Time-Delay Control, Flashing Control, Stairwell Lighting Function.
- Logical Functions: AND, OR, XOR, and Logic Gate Functions.
- Threshold Functions: High/Low Threshold Control, Hysteresis Control, and Related Functions.
- Heating Function: PWM (1-bit/1-byte) Control Output.
- Control Functions: Channel Status Response/Time-Delayed Transmission, Heartbeat Packet Transmission, Power-Up Recovery, and Related Functions.

### Characteristics

- Compact 4/8-Channel Universal Dimming Actuator
- Programmable via ETS5/ETS6 Software
- Manual Control via Buttons
- 3-Year Warranty

## ● Overview

4/8-Channel 0-10V Dimming Actuator with independent channels. Each channel's output utilizes a high-quality individual relay. Supports 4/8-channel 0/1/2-10V dimming, with each channel featuring a 10A relay for synchronized on/off control. Allows manual push-button control for switching and dimming.

The dimming actuator series are modular installation devices. Designed for easy mounting in distribution boxes according to EN 60715, they can be installed on 35 mm top-hat rails (DIN rails). Electrical connections are implemented via screw-type terminals.

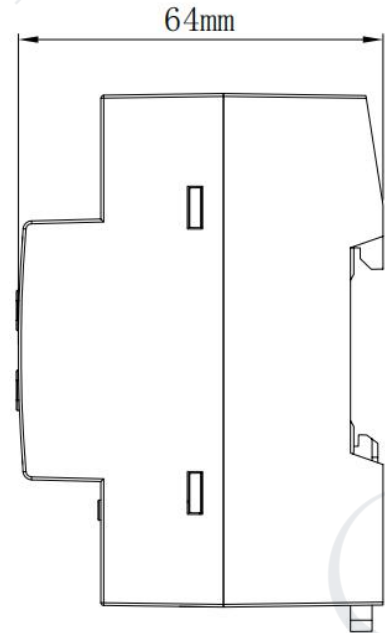
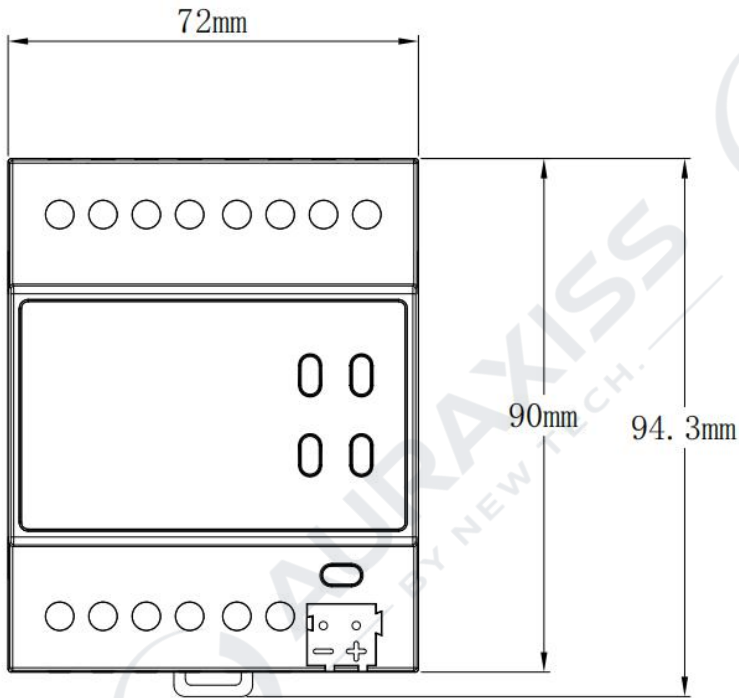
The dimming actuator series connect to the KNX bus through a dedicated bus connection terminal.

## 1. Parameters

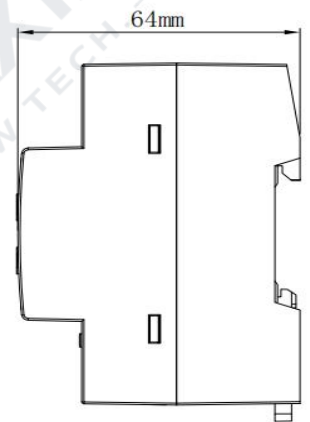
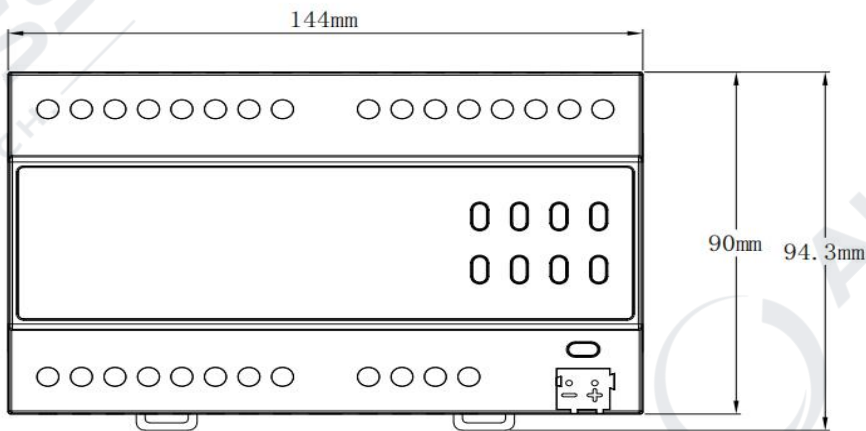
Model		AX/G-DE4.10.1	AX/G-DE8.10.1
Basic Parameters	KNX Bus Voltage	30VDC	
	KNX Bus Current	<7mA	<12mA
	Bus Power Consumption	<210mW	<360mW
	Auxiliary Power Supply Input Voltage	24-30VDC	
	Auxiliary Power Supply Input Current	<10mA24VDC, <8mA30VDC	<30mA24VDC, <25mA30VDC
	Auxiliary Power Supply Power Consumption	<24mW	<72mW
Output Performance Characteristics	Number of Output Channels	4	8
	Contact Switching Voltage	230VAC@50Hz	
	Contact Switching Current	Per Channel 10A	
	Signal Output Voltage	0-10V DC, Per Channel 40mA/CHS	
	Mechanical Life	1000000ops	
	Electrical Life	100000ops	
Operation and Display	Programming Button	Setting Physical Addresses	
	Manual Button/ LED Indicator	Manual Control and Indication	
Environment	Ta/Operation Tempe	-5 ~ +45°C	
	Ts/Storage Temp	-20 ~ +60°C	
	Operating Humi	10 ~ 95% RH RH Condensation-Free	
Connection	Screw-Type Terminal	0.5 – 4.0mm <sup>2</sup> Solid Wire, 0.5 - 2.5mm <sup>2</sup> Stranded Wire	
	KNX Bus Terminal	0.8mm φ, Solid Wire	
	Dimension	72*90*64mm (W*H*D)	144*90*64mm (W*H*D)
	Face Width	4SU	8SU
	Install	35mmDIN Rail Mounting	

## 2. Dimension

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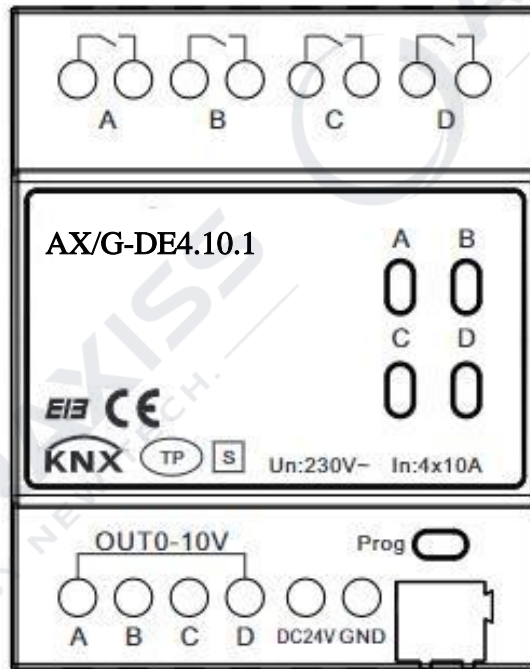


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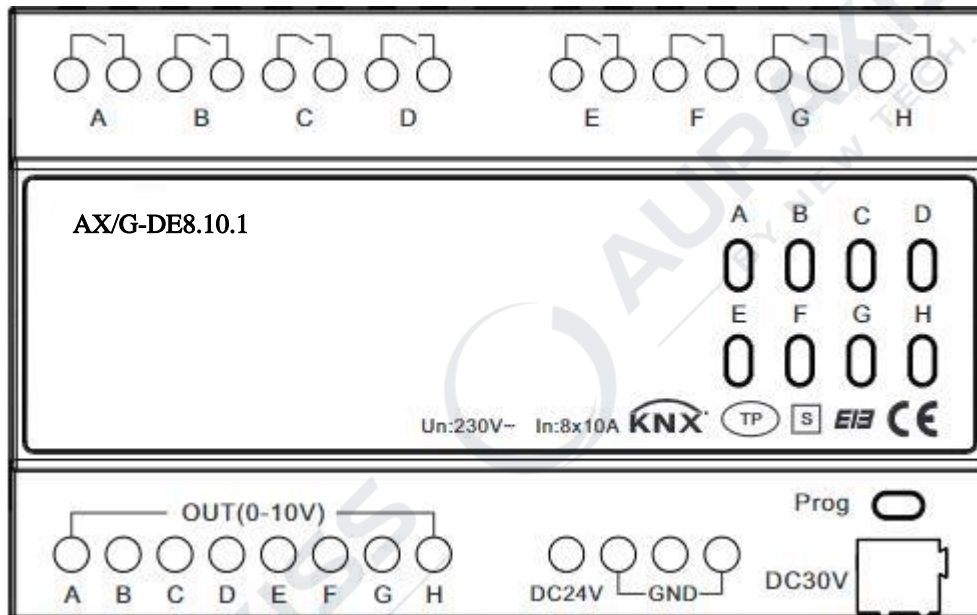


### 3. Label

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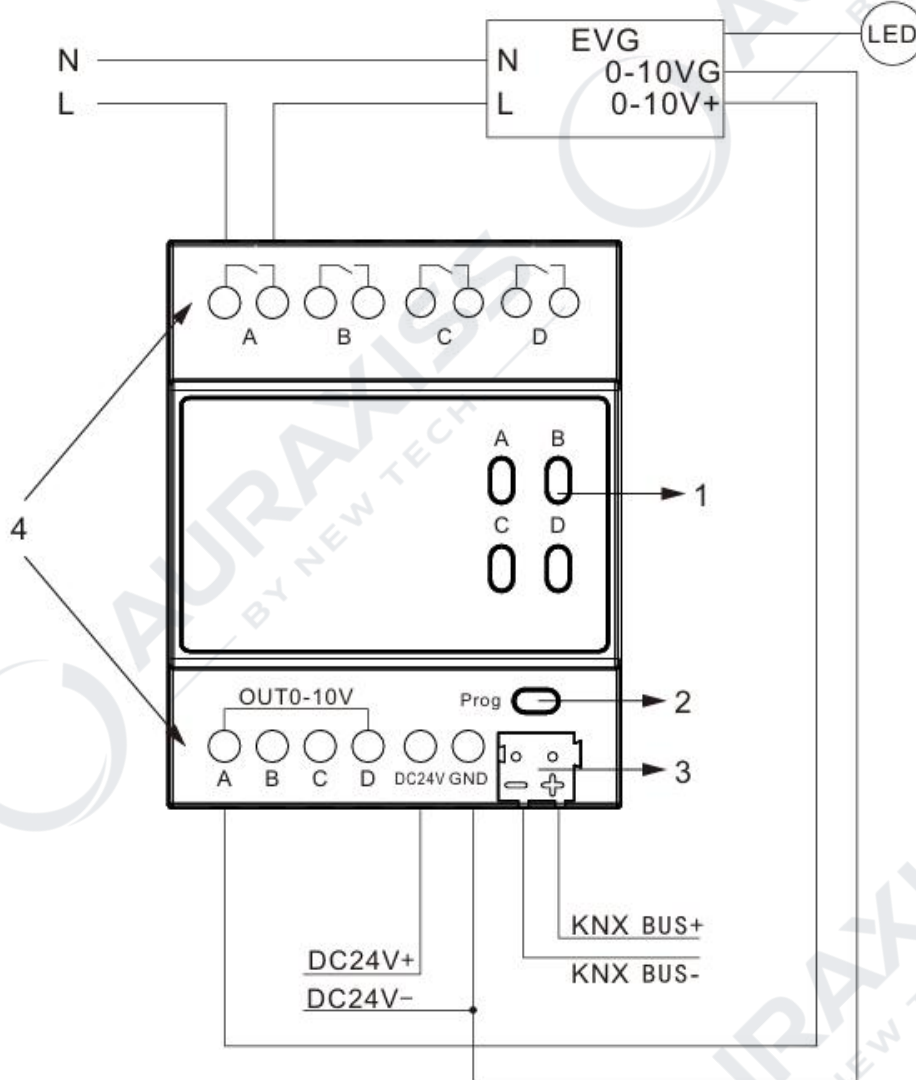


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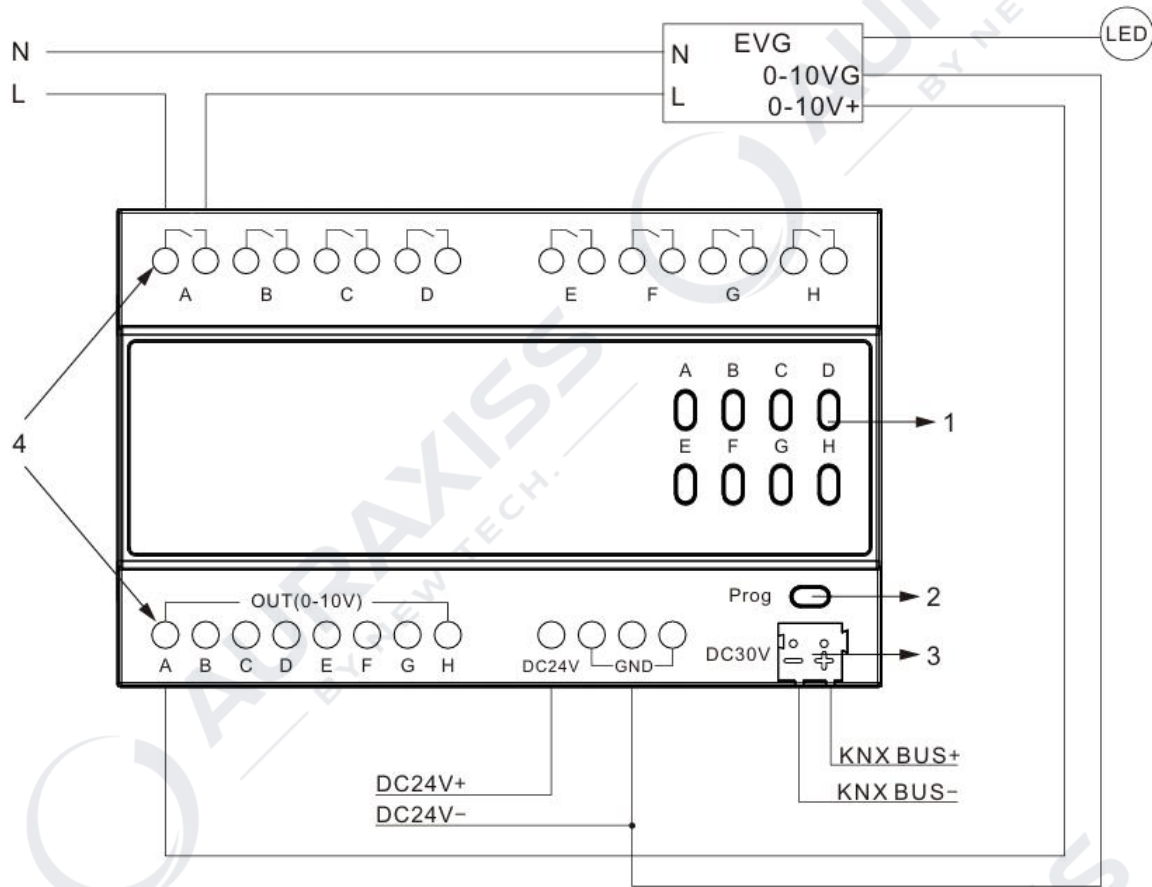
## 4. Wiring Diagram

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- 1、 Manual Override Switch
- 2、 Programming Button (LED steady on = device in programming mode; LED rapid flashing = uncommissioned state)
- 3、 KNX/EIB Bus Connection Terminal
- 4、 Input/Output Terminals

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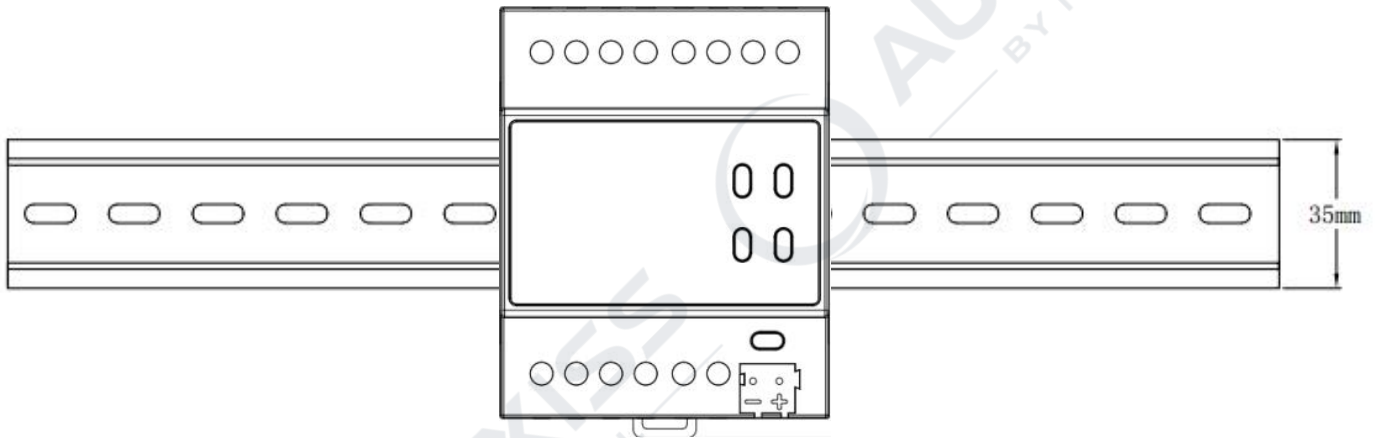
## 5. Mounting Drawing

Step 1. Secure the DIN rail

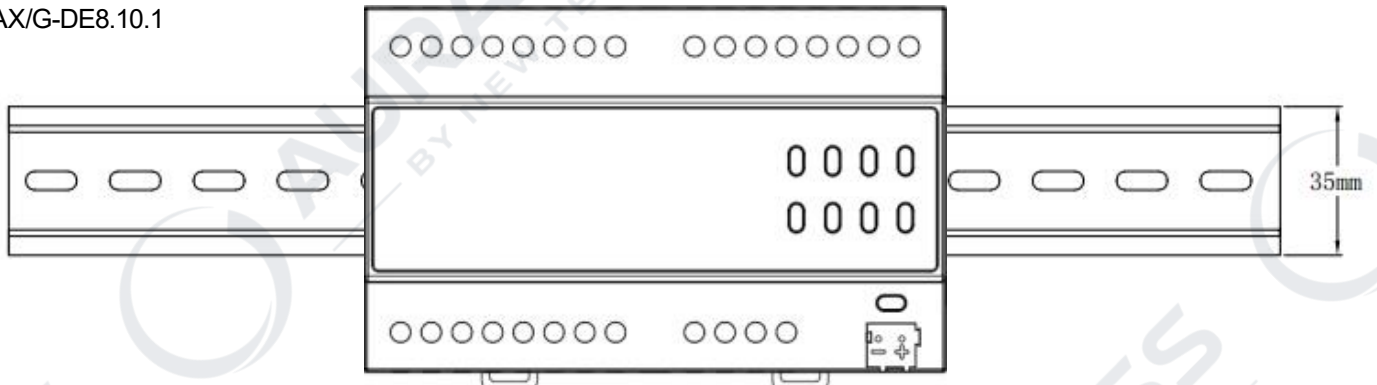


Step 2. Press the entire module onto the rail and slide it to the desired position until it locks in place.

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## 6. Revision History

DATE	REV	Modification details
2025-10-14	V1.0	Initial Release