

4/8 Channel Switch

- AX/G-NR4.10.1
- AX/G-NR8.10.1
- AX/G-NR4.16.1
- AX/G-NR8.16.1

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..
- 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 Universal 4/8-Channel Switch Actuator
- Suitable for Resistive, Capacitive, and Inductive Loads
- Programmable via ETS5/ETS6 Software
- Manual Control via Buttons
- 3-Year Warranty

● Overview

The switch actuator features built-in independent channels, with each channel utilizing high-quality individual relays. Its compact design enables installation on 35 mm DIN rails for easy integration into distribution boxes. Electrical connections are implemented through screw terminals. This series of relay control modules connects to the KNX bus via dedicated bus terminals. The integrated switching relays are ideally suited for controlling: Resistive loads, Capacitive loads, LED power supplies, Inductive loads, Modules are powered directly through the KNX/EIB bus, eliminating the need for additional power supplies

1. Parameters

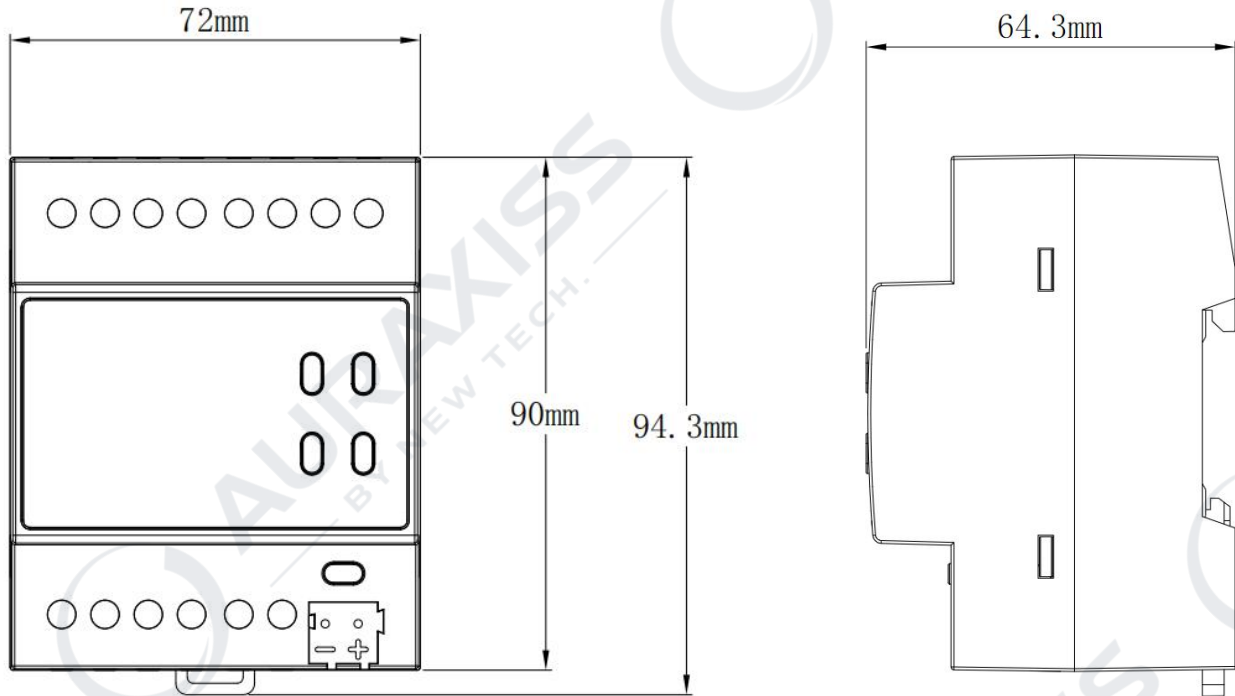
Model		AX/G-NR4.16.1	AX/G-NR8.16.1	AX/G-NR4.10.1	AX/G-NR8.10.1
Basic Parameters	KNX Bus Voltage	30VDC			
	KNX Bus Current	<5mA			
	KNX Bus Power Consumption	<150mW			
	Number of Switching Output Channels	4	8	4	8
	Output Tytle	Standalone Relay			
Output Switching Performance	voltage	230VAC@50Hz			
	load current	16A	16A	10A	10A
	The maximum total current allowed by the entire actuator	64A	128A	40A	80A
Output Life	Mechanical Life	1000000ops			
	Electrical Life	50000ops		100000ops	
Operation and Display	Programming Button	Set Physical			
	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 Condensation-Free			
Safety&EMC	Safety Standards	IEC 60669-2-1:2021, IEC 60669-1:2017, IEC 63044-3:2017, EN 50491-2:2010 + A1:2020, EN IEC 63044-3 :2018, EN IEC 63044-5-1:2019, EN IEC 63044-5-2:2019 ,EN IEC 60669-2-1:2022			
	Electromagnetic Compatibility Emission	IEC 63044-3:2017,EN IEC 63044-5-1:2019;EN IEC 63044-5-2:2019 EN IEC 63044-3 :2018, EN IEC 63044-5-1:2019, EN IEC 63044-5-2:2019			
	Electromagnetic Compatibility Immunity	IEC 63044-3:2017, EN IEC 63044-5-1:2019; EN IEC 63044-5-2:2019, EN IEC 63044-3 :2018, EN IEC 63044-5-1:2019, EN IEC 63044-5-2:2019			
	Withstand Voltage	KNX Between Ports and Relay Terminals: 2KVAC			
Other	Screw Terminal	0.5 – 4.0mm ² Solid Wire, 0.5 - 2.5mm ² Stranded Wire			
	KNX Bus Terminal	0.8mm φ, Solid Wire			
	Dimension	72*90*64mm	144*90*64mm	72*90*64.3mm	144*90*64.3mm
	Face Width	4SU	8SU	4SU	8SU
	Install	35mm DIN Rail Mounting			
Remark	Unless otherwise specified, all specifications are measured at 230VAC input, rated load, and an				

ambient temperature of 25°C.

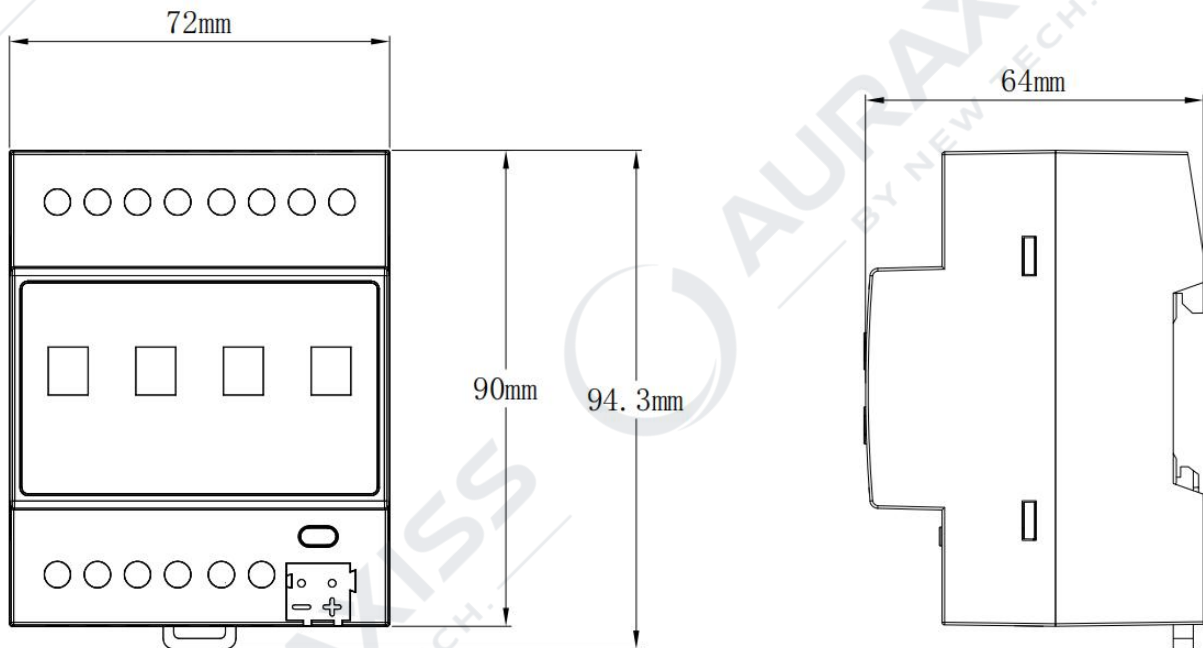
2. Provide the test report issued by a certification body.

2. Dimension

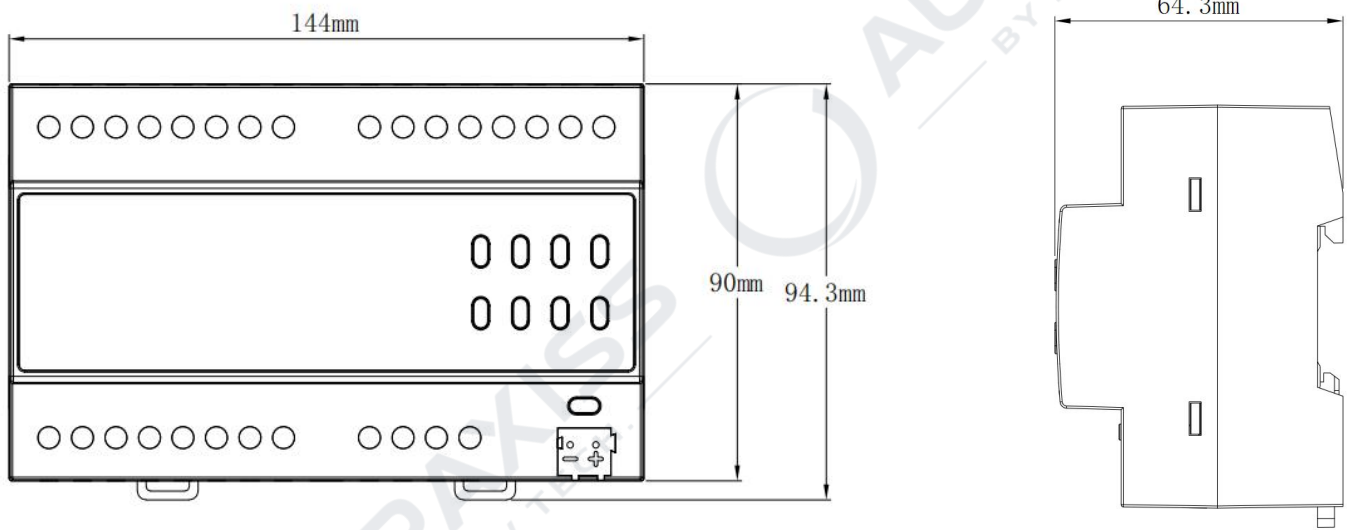
AX/G-NR4.10.1



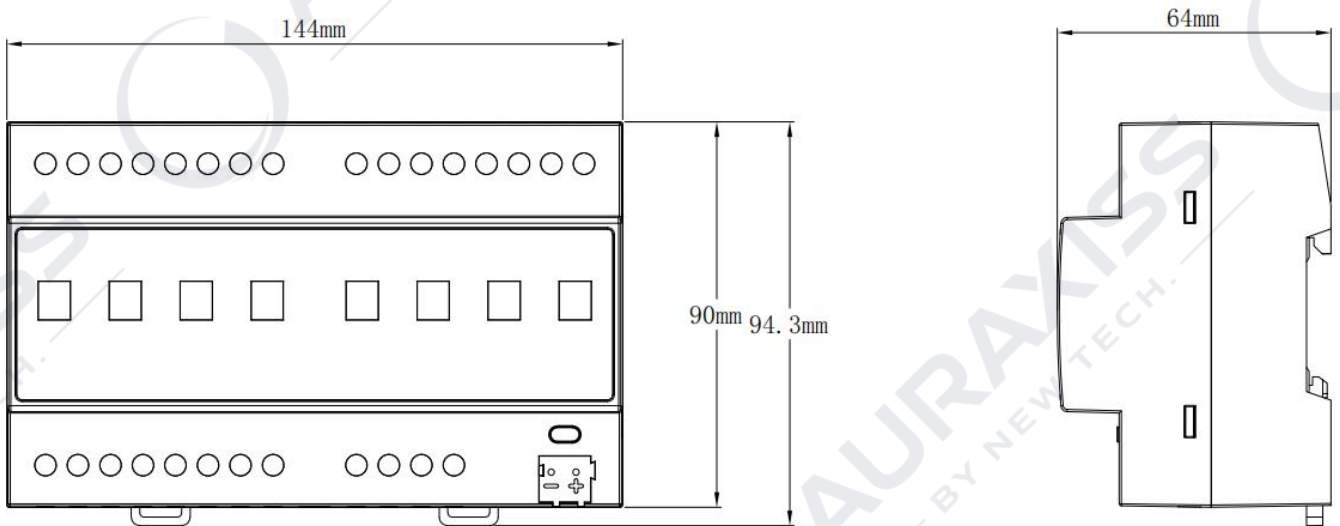
AX/G-NR4.16.1



AX/G-NR8.10.1

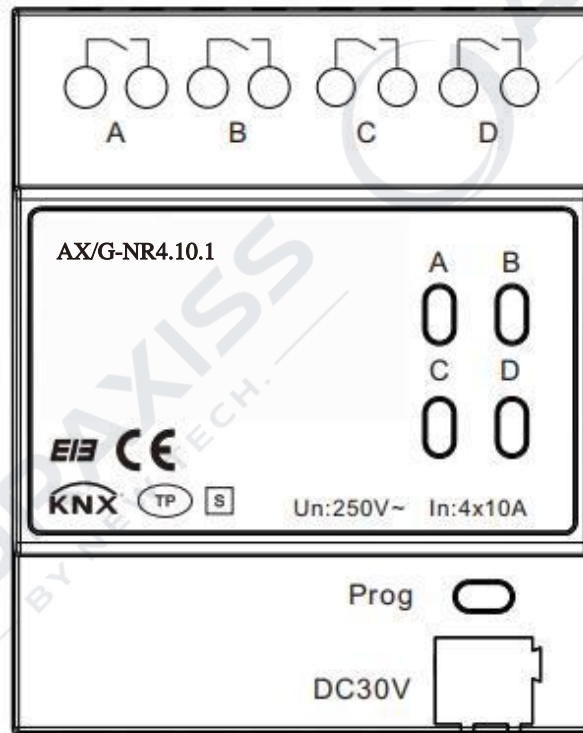


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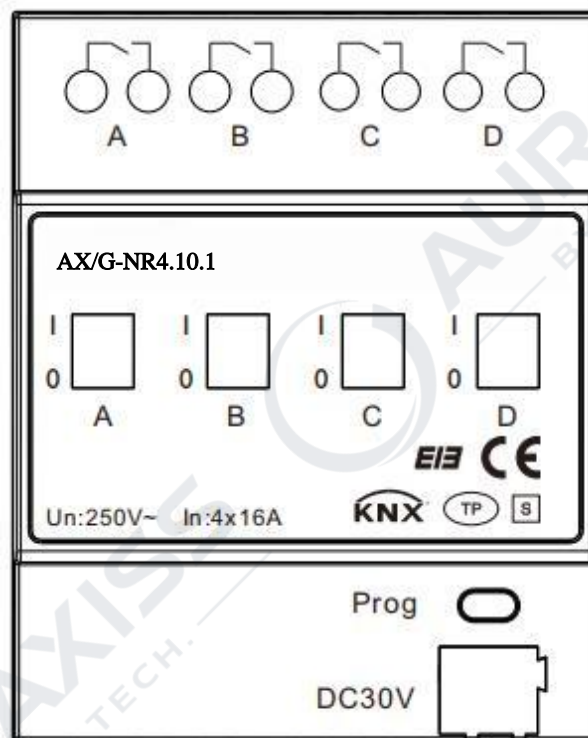


3. Label

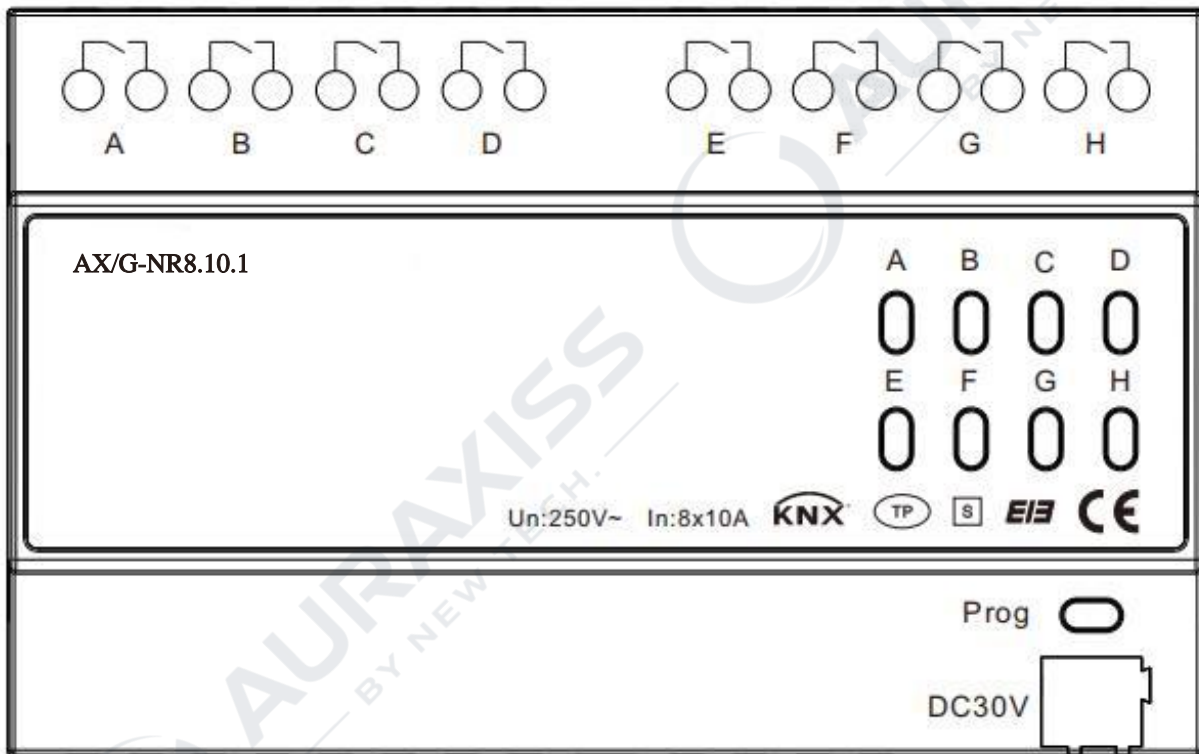
AX/G-NR4.10.1



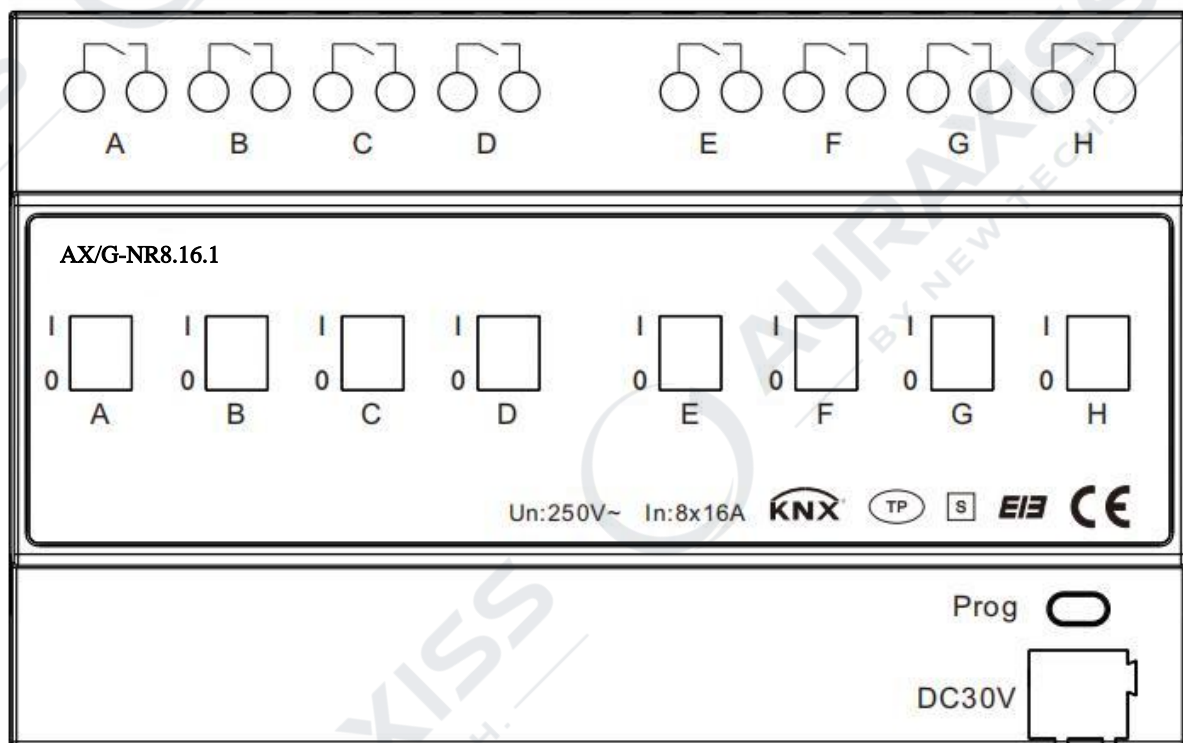
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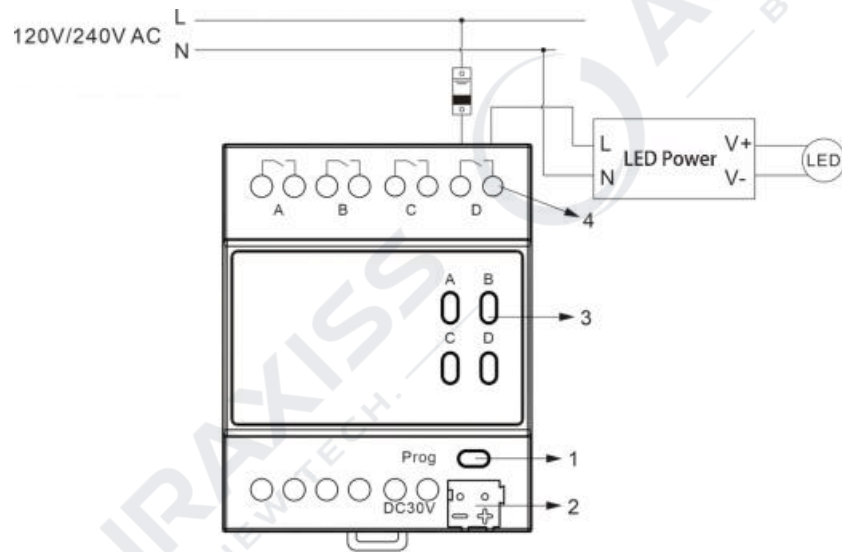


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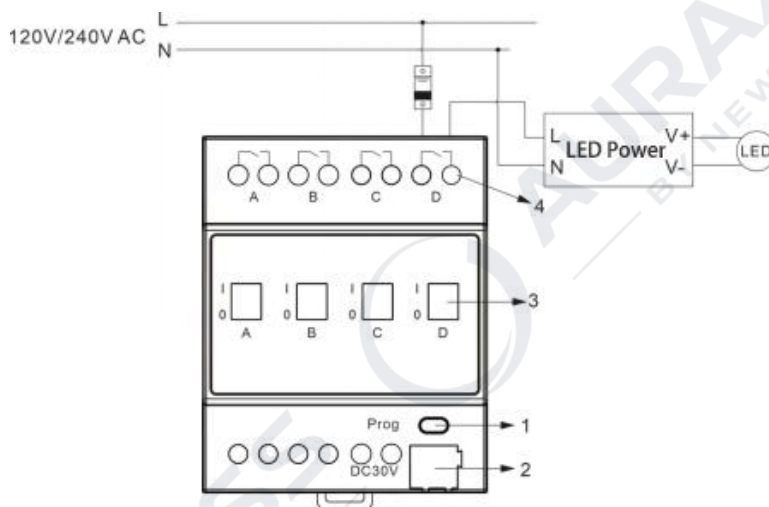
4. Wiring Diagram

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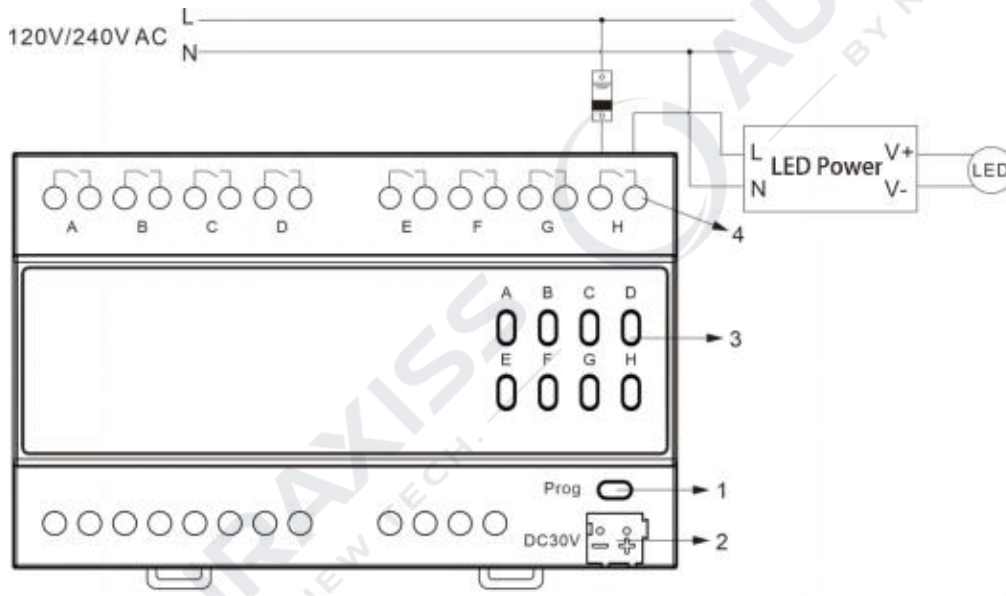
- 1、Programmable Key (The indicator light remains constantly on and the device enters the programming state. The indicator light flashes rapidly to indicate that the device is not configured)
- 2、KNX/EIBBus Connection Terminal
- 3、Manual Control Switch
- 4、Input/Output Terminals

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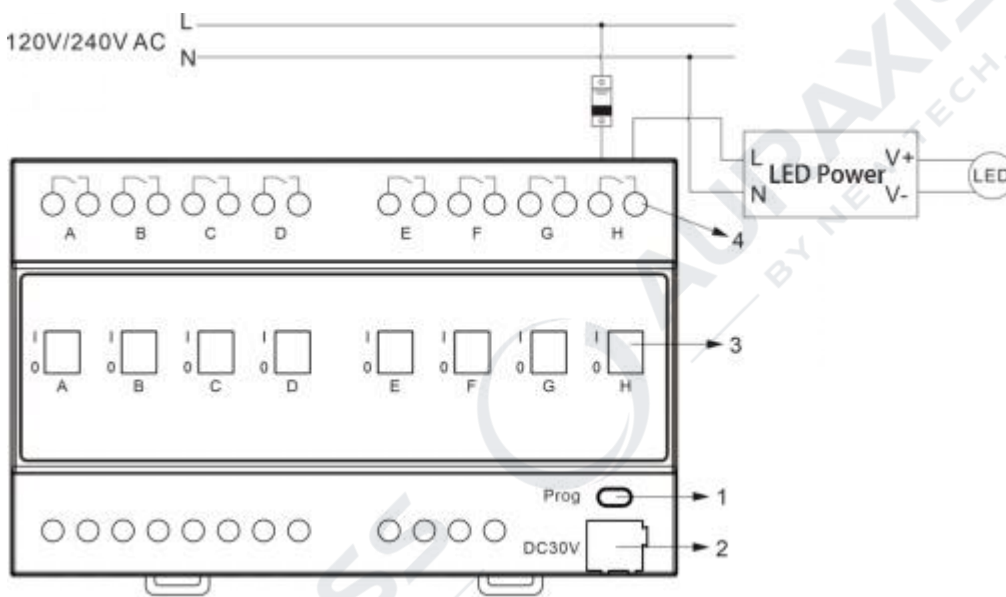
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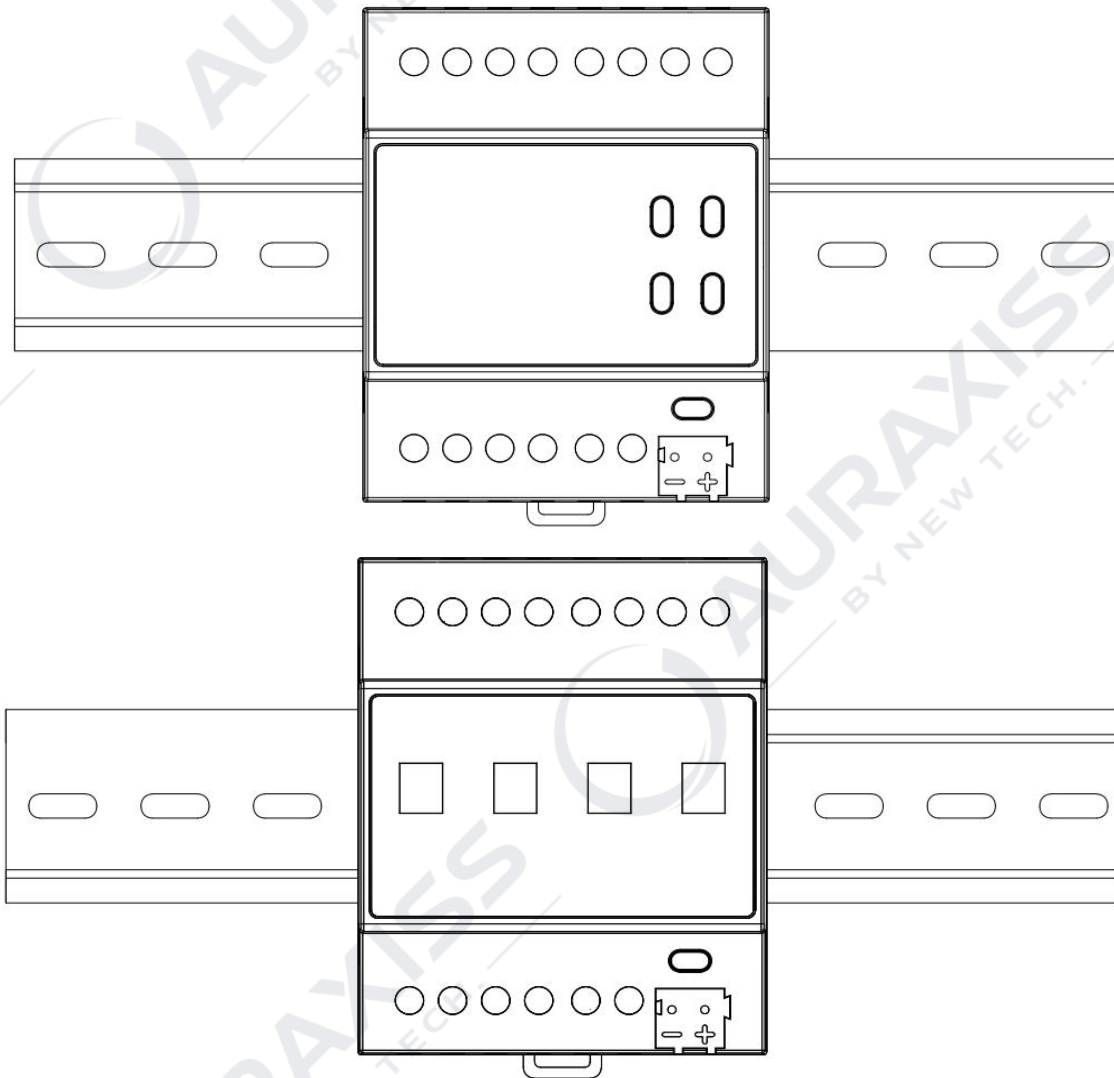
5. Mounting Drawing

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Step 1. Secure the DIN rail



Step 2. Press the entire module onto the DIN rail and slide it until properly positioned, then it locks into place.

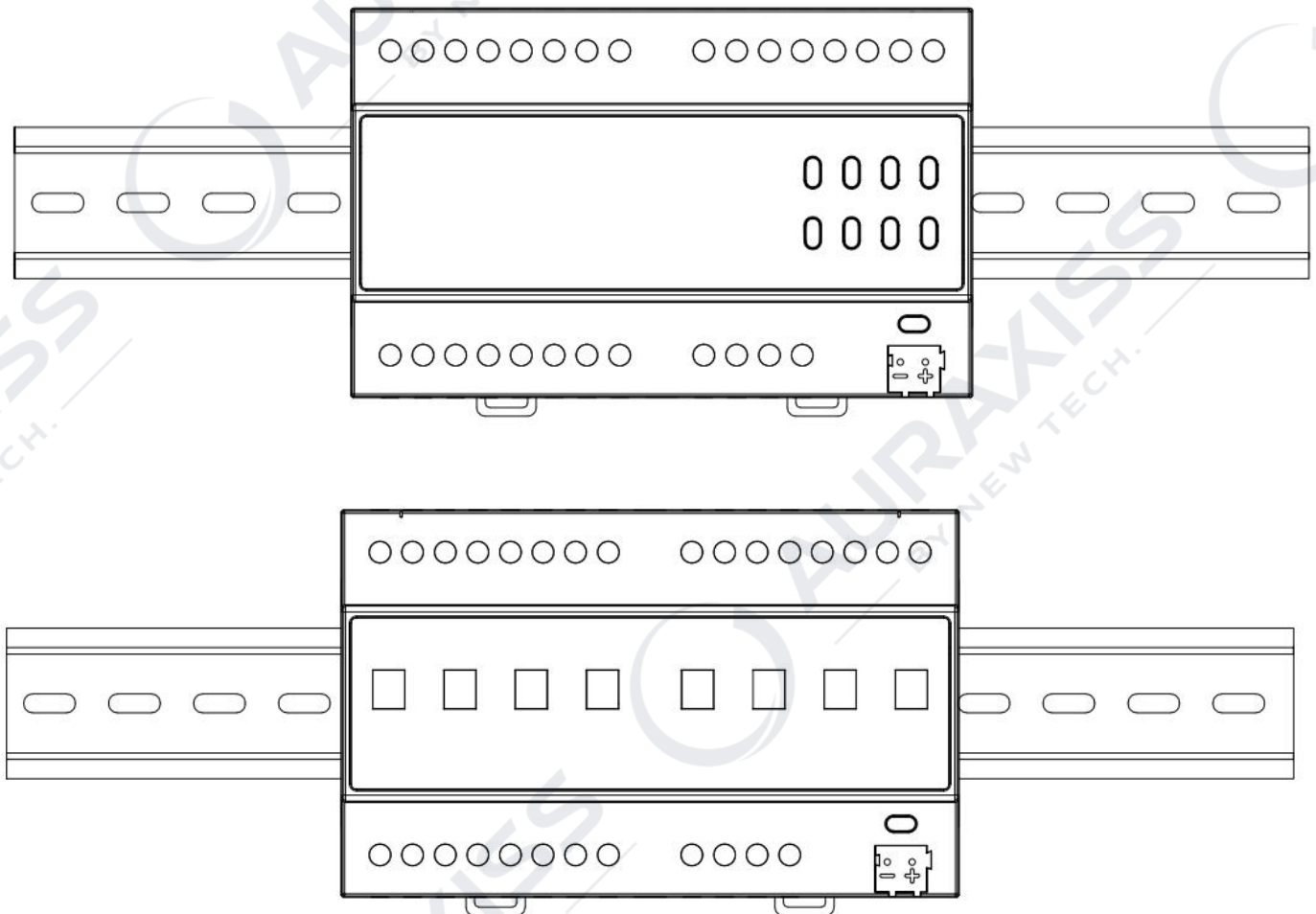


AX/G-NR8.10.1 AX/G-NR8.16.1

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6. Revision History

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