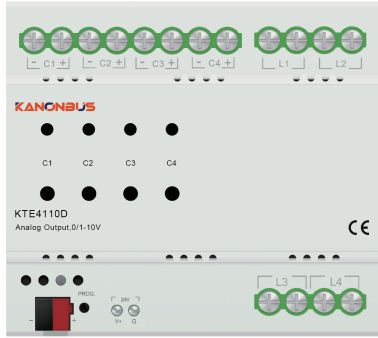


0/1 - 10V Dimming Driver

User Manual

KTE4110D



1

Safety instructions

- Before installation, please read user manual carefully and observe relevant standards, directives, regulations and instructions.
- Electrical equipment must be installed and programmed by qualified technicians only.
- This device is manufactured according to the relevant technical specifications and have CE.
- For more information of this product, please contact the technical engineer of manufacturer.
- Users are not permitted to alter and maintain the product without the authorization of manufacturer.
- Failure to observe the instructions may cause damage to the device and result in fire or other hazards.

Product Overview

The KTE4110D dimming driver is a driving module specifically designed for 0/1 - 10V analog output. It can convert KNX protocol commands into 0 - 10V analog output commands. It comes with 4 channels of 16A relays, which can achieve the turning on/off and dimming of lights, and is applied in environments such as the switching and dimming of 0/1 - 10V lights and the adjustment of electric valves.

The KTE4110D dimming driver uses a 24V DC power supply for auxiliary power supply, and at the same time drives the 0/1 - 10V output. It supports the vast majority of 0/1 - 10V dimming transformers on the market. Users can select a dimming transformer that matches the Current Source module or the Current Sink module.

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Product Features

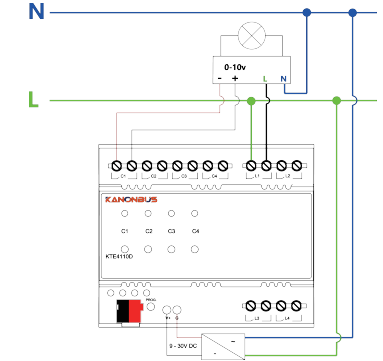
- Realize the on/off/dimming actions of the load output of the dimming driver through the KNX protocol.
- Support dimming transformers that match the Current Source/Current Sink module.
- Equipped with 4 channels of 16A relays.
- Have 4 channels of 0/1 - 10V analog output.
- Each circuit has an independent status display.
- Relevant parameters of each circuit can be set individually.
- Support switch control commands and switch status feedback commands.
- Manually control the on/off/dimming of each circuit.
- Support relative dimming commands (4 bits).
- Support absolute dimming commands (1 byte).
- Scene function.
- The dimming speed can be set.
- The switch fade - in/fade - out speed can be set.
- The starting brightness can be set.
- Use ETS for programming and debugging.

Programming instructions

1. Select the corresponding product database and import it into ETS3/4/5.
2. Add the device to the project created in ETS3/4/5.
3. Press the device programming button and download its physical address through ETS3/4/5. After the download is completed, the red LED indicator light will go out.
4. Open the device database, associate the parameter settings with the corresponding group objects, and then perform the application download.
5. After changing the physical address of the device, repeat "Step 3".
6. After modifying the parameter settings or re - associating the "group objects", repeat "Step 4" to achieve new functions.

3

Product Wiring



Product parameters

Parameters	Types	KTE4110D
Power		
Power Supply		KNX Power , 30V
Transmission Media		KNX TP
Total rated current		≤10mA
Auxiliary power input		
Supply voltage		DC 24V
Rated power		4W

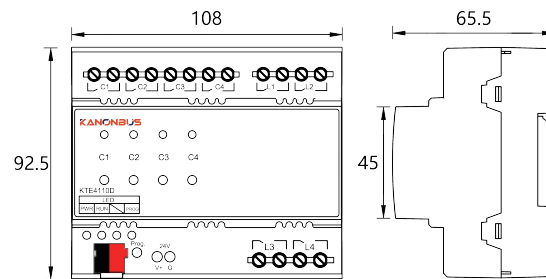
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Product parameters

load output	
The number of output channels	4
Rated voltage	AC 220V
Rated current	16A
0 - 10V output	
Current Source	30mA
Current Sink	20mA
Number of connected ballasts per circuit	≤30
0 - 10V output wiring	0.5mm ² ~ 4mm ²
Manual control mode	electronic type
Product Info	
Dimensions(WxHxT)	108mm x 92.5mm x 65.5mm
Type of protection	IP20
Operation	0°C~70°C
Storage	-25°C ~70°C
Installation method	Rail-mounted installation
Programming mode	S-mode
LED indicator light	
POWER	Working indicator light
RUN	Operating indicator light
PROG.	Programming indicator light

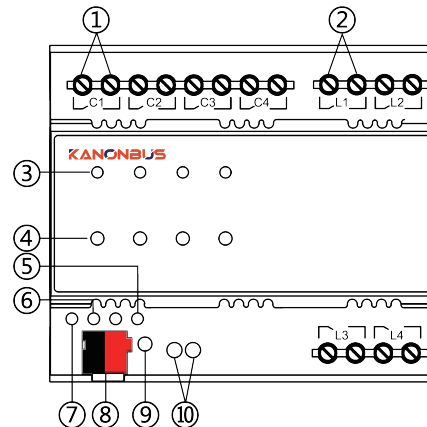
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Product dimensions



6

Operating instructions



7

Operating instructions

- ① Load 0 - 10V port: The left is negative (-), and the right is positive (+).
- ② Load on/off port: The left is the power supply input, and the right is the load output.
- ③ Load output status indicator light: After the load is turned on, it remains steadily red.
- ④ Load output electronic switch: A short press turns the corresponding load on/off, and a long press adjusts the brightness of the corresponding load.
- ⑤ KNX programming button indicator light: When the programming button is pressed, this indicator light shows red. After the physical address is successfully downloaded, it will automatically go out. This indicator light can also be turned on/off through the ETS software.
- ⑥ RUN: When only the auxiliary power supply is connected, the green indicator light remains steadily on. After connecting to the KNX system, this indicator light goes out. When receiving signals from the KNX system, the green light flashes.
- ⑦ PWR: After connecting to the KNX system, the yellow indicator light remains steadily on.
- ⑧ KNX bus terminal: Connect to the KNX system.
- ⑨ Programming button: Press it to program the physical address of the device.
- ⑩ DC 24V auxiliary power supply input: V+ is the positive pole, and G is the negative pole.

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