

Switching Actuator User Manual

KTE04R-20SA
KTE08R-20SA
KTE12R-20SA



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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 KTE04R/08R/12R-20SA opening and closing driver realizes the on-off control of the relay through the KNX protocol. It is suitable for large-current loads and can also detect the actual current of each circuit. The driver obtains the control commands from the panel or the control commands sent by the KNX system to achieve the switching actions of the loads, and it can be applied to lighting and underfloor heating (on-off type). The opening and closing driver allows for manual control of the opening and closing of each circuit through a mechanical toggle switch.

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Product Features

- The rated load of each circuit is 20A, and the maximum impact-resistant inrush current can reach 500A.
- Each circuit can be controlled by a mechanical toggle switch, and manual control can be carried out after the KNX bus power is cut off.
- The opening and closing actions of a single circuit or multiple circuits of the opening and closing driver can be realized through the KNX protocol.
- Relevant parameters can be set separately for each circuit.
- The actual current magnitude of each circuit can be detected.
- The current state can be maintained when the bus power is cut off or a fault occurs.
- Scene function.

Programming instructions

1. Select the corresponding product database and import it into ETS;
2. Add the device to the project created by ETS;
3. Press the device programming button to download the physical address through ETS. After the download is complete, the red LED indicator light will turn off;
4. Open the device database, set its parameters and associate them with the corresponding group objects, and then download the application;
5. After changing the physical address of the device, repeat step 3;
6. After modifying parameter settings or re associating group objects, repeat step 4 to achieve the new functionality.

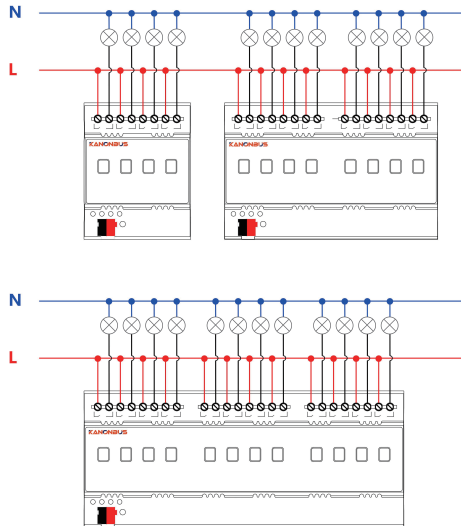
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Product parameters

Parameters	Types	KTE04R-20SA	KTE08R-20SA	KTE12R-20SA
Power				
Power Supply		KNX Power, 21V~30V DC		
Transmission Media		KNX TP		
Power Consumption		≤12MA		
Outputs				
Channels		4	8	12
Rated Voltage		250V AC		
Rated current		20A		
Current detection		20A		
Cable conductor cross sections		0.5mm ² ~4mm ²		
Push button type		Electronic		
Maximum load capacity of the load				
Resistive load		50A, 277V		
Incandescent lamp		5000W		
Electronic ballast		16A,277V		
Against inrush current		N/A		
Relay information				
Contact material		AgSnO ₂		
Mechanical service life(times)		>1×10 ⁶		
Electronic service life (resistive load, times)		>1×10 ⁶		
Product info				
Dimensions (Wx H x T,mm)		72 x92.5x65.5	144 x92.5x65.5	216 x92.5 x65.5
Type of protection		IP20		
Storage		0°C~70°C		
Operation		-25°C~70°C		
Installation		DIN		
Program mode		S Mode		

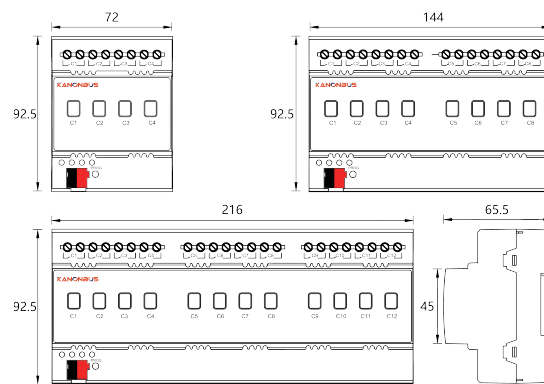
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Product Wiring



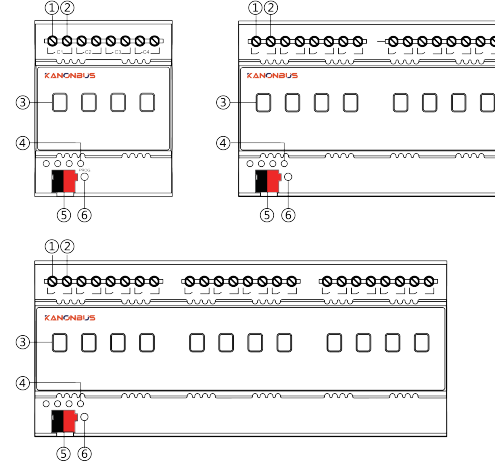
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Product dimensions



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Operating instructions



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Operating instructions

- ① Load power supply input terminal
- ② Load control terminal
- ③ Relay manual switch
- ④ Programming button indicator light: When the programming button is pressed, the indicator light turns red. It will automatically turn off after the physical address is downloaded. It can also be turned on or off via the ETS software.
- ⑤ KNX bus terminal, which is used to connect to the KNX system
- ⑥ Programming button: Press it to write the physical address of the device

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