Switching Actuator
User Manual

KTE04R-16S/KTE04R-20S
KTE08R-16S/KTE08R-20S
KTE12R-16S/KTE12R-20S

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 - 16/20S on-off drivers achieve the switching control of relays through the KNX protocol and are suitable for high-current loads. The drivers obtain control commands from the panel or those sent by the KNX system to achieve the switching actions of the loads, and can be applied to lighting and underfloor heating (on-off type). The on-off drivers can control the opening and closing of each circuit through manual buttons.

Product Features

- The rated load of each circuit is 20A, and the maximum shock-resistant inrush current can reach 500A (KTE04R/08R/12R - 20S).
- The rated load of each circuit is 16A, and the maximum shock-resistant inrush current can reach 500A (KTE04R/08R/12R - 16S).
- Each circuit is controlled by a mechanical toggle lever, 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 on-off driver are achieved through the KNX protocol.
- Relevant parameters can be set separately for each circuit.
- The current state can be maintained when the bus power is cut off or a fault occurs.
- Scene function.

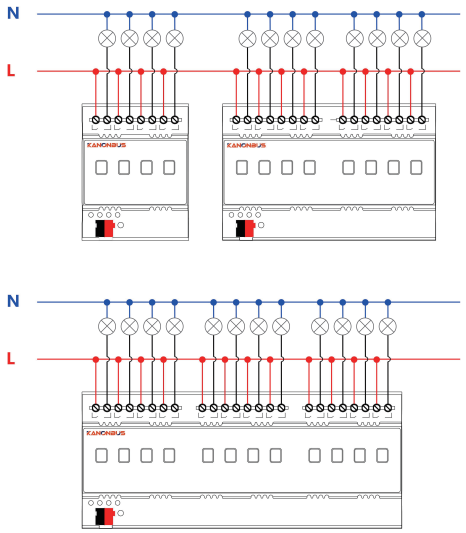
Programming instructions

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.

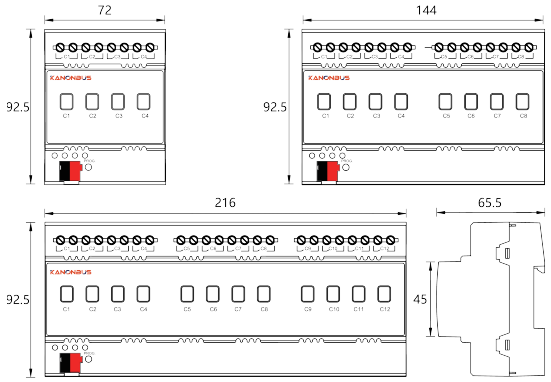
Product parameters

Parameters \ Types	KTE04R-16S	KTE04R-20S	KTE08R-16S	KTE08R-20S	KTE12R-16S	KTE12R-20S
Power						
Power Supply	KNX Power，21V~30V DC					
Power Consumption	KNX TP					
Power Consumption	≤12MA					
Outputs						
Channels	4		8		12	
Rated Voltage	250V AC					
Rated current	16A	20A	16A	20A	16A	20A
Cable conductor cross sections	0.5mm²~4mm²					
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	AgSnO2					
Mechanical service life(times)	>1×10⁶					
Electronic service life (resistive load, times)	>1×10⁵					
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℃~70℃					
Operation	-25℃~70℃					
Installation	DIN					
Program mode	S Mode					

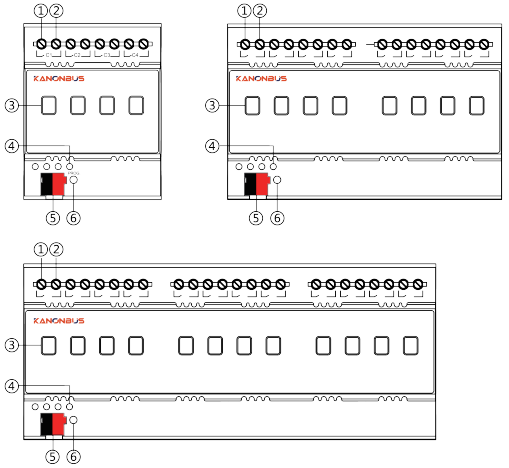
Product Wiring



Product dimensions



Operating instructions



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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