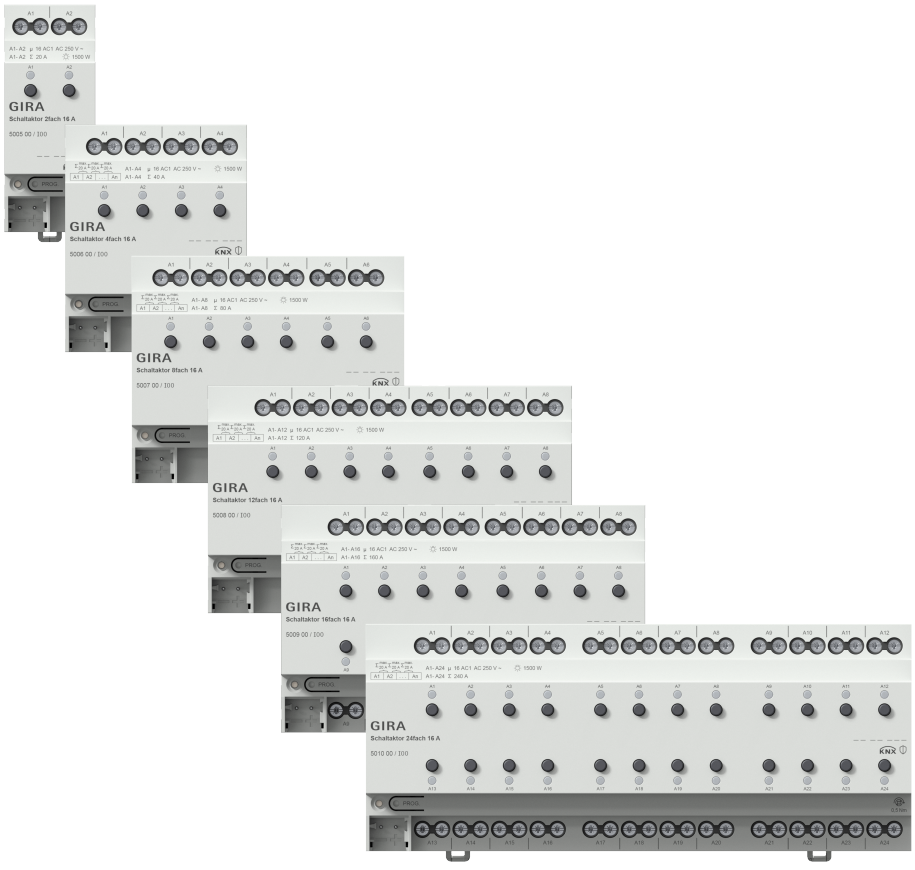
Operating instructions

Switching actuators 10 A, Switching actuators 16 A

Art. no. 5125 00, 5126 00, 5127 00, 5128 00, 5129 00, 5130 00, 5005 00, 5006 00, 5007 00, 5008 00, 5009 00, 5010 00



Product image non-binding

82411202 / 29.05.2026

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1 Safety instructions

To avoid potential damage, read and follow the following instructions:



Electric devices may only be mounted and connected by electrically skilled persons.

Danger of electric shock. Always disconnect before carrying out work on the device or load. In so doing, take all the circuit breakers into account, which support dangerous voltages to the device and or load.

Danger of electric shock on the SELV/PELV installation. Do not connect loads for mains voltage and SELV/PELV together to the device.

Instructions are part of the product. So keep them in a safe place.

2 System information

Planning, installation and commissioning of the device are carried out with the aid of the ETS, version 5.7.7 and higher or 6.3.0.

This device is a product of the KNX system and complies with the KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite for proper understanding.

The function of the device depends on the software. Detailed information on software versions and the respective scope of functions as well as the software itself can be obtained from the manufacturer’s product database.

The device can be updated. Firmware can be easily updated with the Gira ETS Service app (additional software).

The device is KNX Data Secure capable. KNX Data Secure offers protection against manipulation in building automation and can be configured in the ETS project. Detailed technical knowledge is a prerequisite. A device certificate, which is attached to the device, is required for safe commissioning. During mounting, the device certificate must be removed from the device and stored securely.

3 Device components

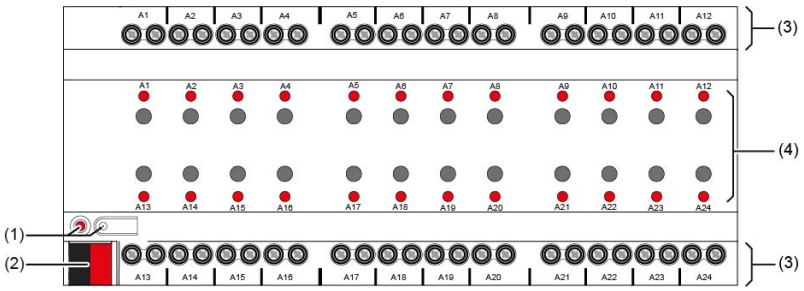


Figure 1: Device components using the example of the 24-gang device variant

(1) Programming button and LED
(2) KNX connection
(3) Load connections (relay outputs)
(4) Control panel with status displays

4 Intended use

- Switching of electrical loads AC 230 V with potential-free contacts
- Operation in KNX system
- Installation in distribution boards on DIN rail to DIN EN 60715

5 Product characteristics

General

- Outputs can be operated manually, construction site mode
- Status display state on the front of the device through LED
- Switch-off of unnecessary outputs
- Xpress configuration in the ETS
- KNX Data Secure capable
- Can be updated with Gira ETS Service app

Switching operation characteristics

- Operation as NO or NC contacts
- KNX status display in manual operation and in bus mode
- Logic and restraint function
- Central switching functions with collective feedback
- Time functions: switch-on delay, switch-off delay, staircase lighting timer with run-on time
- Scene function
- Operating hours counter

Logic function characteristics

- Logic gate
- Transformer (conversion)
- Disabling element
- Comparator
- Limit value switch

6 Operation

Operating elements

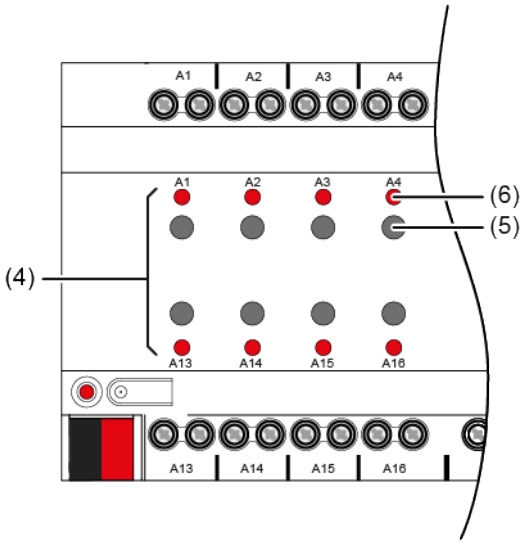


Figure 2: Operating elements – Overview

(4) Control panel with status displays

(5) Button for manual operation (per relay output)
Each press of the button changes the relay status.

(6) Status LED (per relay output)
ON: Relay output closed
OFF: Relay output opened

Bus operation / manual operation

- Bus mode: Operation via other KNX devices
- Manual operation: local manual control with keypad

After a bus voltage return, the device switches to bus mode. In the unprogrammed delivery state, all relay outputs will open.

The manual operation can be disabled for all outputs in ongoing operation via a bus telegram.

Status indication

The status LEDs (6) indicate the states of the outputs.

– OFF: Relay output opened
– ON: Relay output closed

The status LEDs can also only display the statuses temporarily according to the ETS configuration. In this case, the LEDs switch off automatically after a set display duration. When a button (5) is pressed, the status LEDs are activated and indicate the initial status if manual operation is enabled and not disabled in the ETS.

Operating the outputs

Precondition: Bus voltage is switched on.

- Press any button (5) briefly.

  The assigned output changes the relay status. The corresponding status LED (6) indicates the relay status.
- If necessary, press further buttons (5) in succession.

Simultaneous manual operation of several outputs is not possible.

Outputs that are not required can be switched off in the ETS. Manual operation of these outputs is no longer possible.

7 Information for electrically skilled persons

7.1 Mounting and electrical connection

Mount device

Recommendation: Enter or scan the device certificate to add it to the ETS project. Use a high resolution camera to scan the QR code. Remove the device certificate from the device during mounting. Document all passwords and keep them safe.

- Mount device on DIN rail. The installation position is arbitrary.

Connect device

DANGER!

Electric shock when live parts are touched.

Electric shocks can be fatal.

Always disconnect before carrying out work on the device or load. To do so, switch off all associated circuit breakers. Cover up any adjacent live parts.

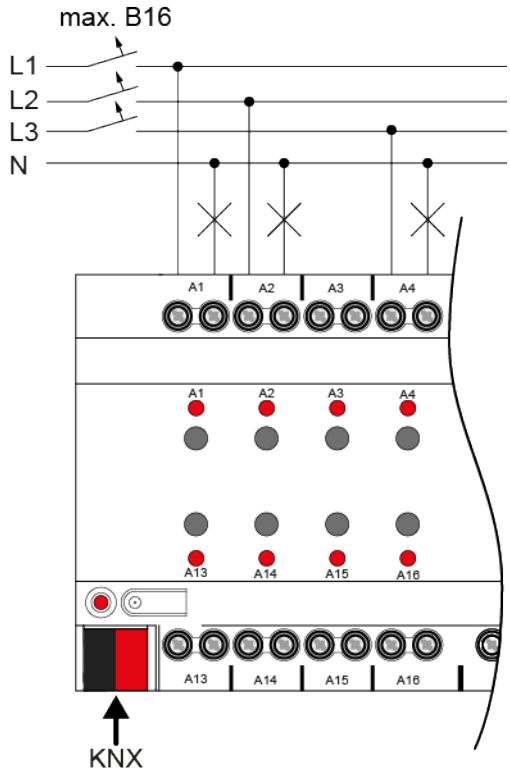


Figure 3: Device connection (connection example)

- Connect load as shown in the connection example. Observe the technical data.
- Connect bus line with KNX device connection terminal observing the correct polarity.

- Attach the cover cap (accessories) to the KNX connection as protection against hazardous voltages.

The total current capacity of neighbouring outputs is a maximum of 20 A.

7.2 Commissioning

Commissioning the device

- Switch on the KNX bus voltage.
- Wait approx. 10 s (see figure 4).
- Switch on load circuits.
- Perform commissioning with the ETS.

Delivery state: The outputs can be operated in manual control.

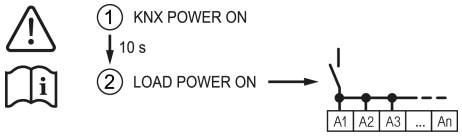


Figure 4: Sequence during commissioning - Device label

7.2.1 Safe-state mode and master reset

Safe-state mode

The safe-state mode stops the execution of the loaded application program.

Only the system software of the device is still functional. ETS diagnosis functions and programming of the device are possible. Manual control is not possible.

Activating safe-state mode

- Switch off the bus voltage or remove the KNX device connection terminal.
- Wait approx. 15 s.
- Press and hold down the programming button.
- Switch on the bus voltage or attach the KNX device connection terminal. Release the programming button only after the programming LED starts flashing slowly.

  Safe-state mode is activated.

  The programming mode can also be switched on and off in the safe-state mode as usual by briefly pressing the programming button again. The programming LED stops flashing if the programming mode is active.

Deactivating safe-state mode

- Switch off bus voltage (wait approx. 15 s) or carry out ETS programming.

Master reset

The master reset restores the basic device settings (physical address 15.15.255, firmware remains in place). The device must then be recommissioned with the ETS. The "Operation in delivery state" is active again.

In secure operation, a master reset will deactivate the device security. The device can then be recommissioned with the device certificate.

Performing a master reset

Prerequisite: safe-state mode is activated.

- Press and hold down the programming button for > 5 s.

  The programming LED flashes quickly.

  The device performs a master reset, restarts and is ready for operation again after approx. 5 s.

Restoring the device to factory settings

Devices can be reset to factory settings with the Gira ETS Service app. This function uses the firmware included in the device that was active at the time of delivery (delivery state). Restoring the factory settings causes the devices to lose their physical address and configuration.

7.3 Optional: Installing the phase busbar (accessory)

Clampable conductor cross-sections when using phase rails (see figure 7)

- If necessary, cut the phase busbar at the notches using diagonal cutting pliers (see figure 5).
- Attach the end cap to the interface.

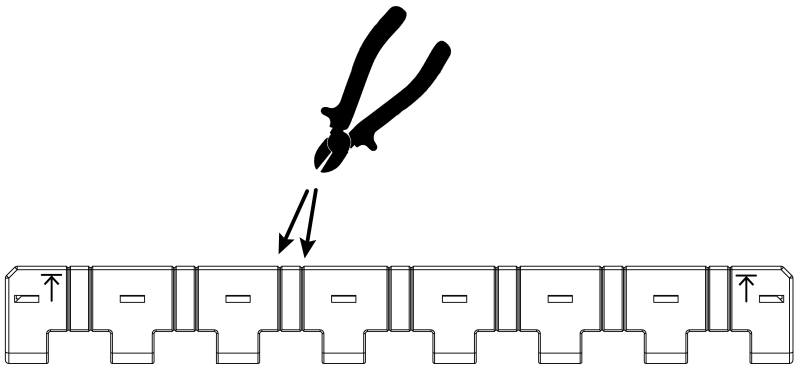


Figure 5: Shortening the phase busbar

Ensure that the device connection terminals are open and the copper pins are inserted in the device connection terminals.

- Align the phase busbar using the printed arrows and plug it into the device connection terminals (see figure 6).
- Screw the phase busbar to the device connection terminals.

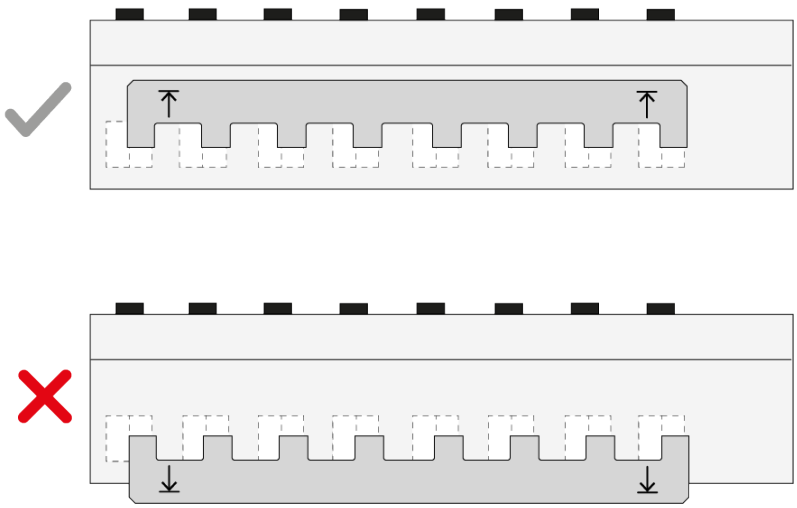


Figure 6: Installing the phase busbar

In addition to the lug, only the cable cross-sections shown may be connected to terminals with an inserted lug on the phase busbar (see figure 7).
Extended cable cross-sections may be connected to terminals without an inserted lug on the phase busbar (see figure 8).

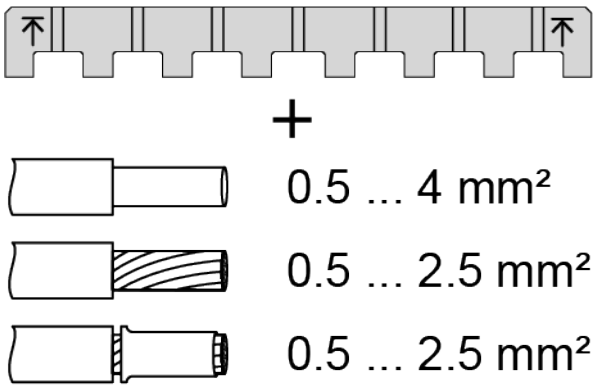


Figure 7: Clampable conductor cross-sections when using phase rails

8 Technical data

KNX	
KNX medium	TP256
KNX commissioning mode	S mode
Rated voltage	DC 21 ... 32 V SELV
Current consumption	
Device variants 2-gang to 16-gang	5 ... 18 mA
Device variant 24-gang	5 ... 24 mA
Ambient conditions	
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-25 ... +70 °C

Clampable conductor cross-section (see figure 8)



Figure 8: Clampable conductor cross-section

Clampable conductor cross-sections when using phase rails (see figure 7)

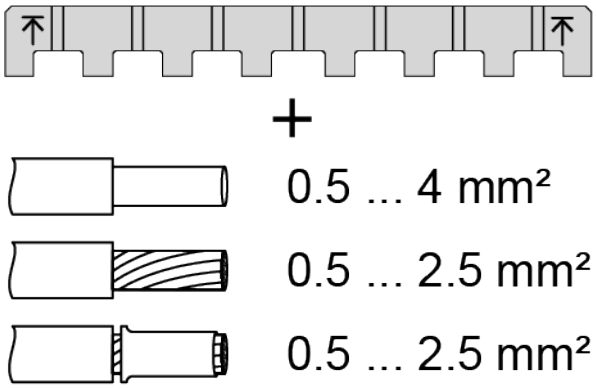


Figure 7: Clampable conductor cross-sections when using phase rails

Installation width	
Device variant 2-gang	36 mm / 2 HP
Device variant 4-gang	72 mm / 4 HP
Device variant 8-gang	108 mm / 6 HP
Device variant 12-gang	144 mm / 8 HP
Device variant 16-gang	144 mm / 8 HP
Device variant 24-gang	216 mm / 12 HP
Weight	
Device variant 2-gang	Approx. 110 g

Device variant 4-gang	Approx. 198 g
Device variant 8-gang	Approx. 307 g
Device variant 12-gang	Approx. 426 g
Device variant 16-gang	Approx. 508 g
Device variant 24-gang	Approx. 754 g

Terminals	
Connection mode	Screw terminals
Stripping length	8 mm
Phillips screwdriver (recommended)	PZ1 Plusminus (Pozidriv/slotted)
Phillips screwdriver	PZ1
Slotted screwdriver	4 mm
Connection torque for screw terminals	max. 0.5 Nm

Summation currents	
Neighbouring outputs	Σ 20 A
All outputs	
Device variant 2-gang	Σ 20 A
Device variant 4-gang	Σ 40 A
Device variant 8-gang	Σ 80 A
Device variant 12-gang	Σ 120 A
Device variant 16-gang	Σ 160 A
Device variant 24-gang	Σ 240 A
Circuit breaker	max. B16

Switching voltage	AC 250 V ~
Mains frequency	50 / 60 Hz

Device variants "10 A"
(5125 00, 5126 00, 5127 00, 5128 00, 5129 00, 5130 00)

Outputs	
Switching current AC1	10 A
Fluorescent lamps	10 AX (140 µF)
Switch-on current (700 µs)	max. 170 A (with 200 W HV-LED load)

Loads per output	
Incandescent lamps	1300 W
HV-LED lamps	200 W
Motors	1150 VA

Device variants "16 A"
(5005 00, 5006 00, 5007 00, 5008 00, 5009 00, 5010 00)

Outputs

Switching current AC1	16 A
Fluorescent lamps	16 AX (140 µF)
Switch-on current (1,000 µs)	max. 235 A (with 400 W HV-LED load)
Loads per output	
Incandescent lamps	1500 W
HV-LED lamps	400 W
Motors	1150 VA

9 Accessories

Narrow cover caps	Art. no. 8300 00
Set of 1-pole phase busbars for 16-gang switch actuator / 8-gang Venetian blind actuator, for Gira One and KNX	Art. no. 8313 00
Set of 1-pole phase busbars for 24-gang switch actuator / 12-gang Venetian blind actuator, for Gira One and KNX	Art. no. 8314 00
Set of end caps for phase busbar	Art. no. 8315 00

10 Warranty

The warranty is provided by the specialist trade in accordance with statutory requirements. Please submit or send faulty devices postage paid together with a fault description to your responsible salesperson (specialist trade / installation company / electrical specialist trade). They will forward the devices to the Gira Service Center.

Gira
Giersiepen GmbH & Co. KG
Elektro-Installations-
Systeme

Industriegebiet Mermbach
Dahlienstraße
42477 Radevormwald

Postfach 12 20
42461 Radevormwald

Deutschland

Tel +49(0)21 95 - 602-0
Fax +49(0)21 95 - 602-191

www.gira.de
info@gira.de