

Shutter actuator 4-gang 230V

Order-No.: 1050 00

Operating instructions

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Danger of electric shock. Device is not suitable for disconnection from supply voltage.

For parallel connection of several motors to an output it is essential to observe the corresponding instructions of the manufacturers, and to use a cut-off relay if necessary. The motors may be destroyed.

Risk of injury. Use the device only for controlling roller shutter motors or awnings. Do not use it to switch other loads.

Use only drives with mechanical or electronic limit switches. Check the limit switches for correct adjustment. Observe the specifications of the motor manufacturers. Device can be damaged.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components

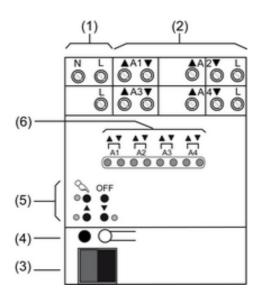


Figure 1

- (1) Mains voltage connection
- (2) Motor connections
- (3) KNX connection
- (4) Programming button and LEDs
- (5) Button field for manual control
- (6) Status LEDs for outputs

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3 Function

System information

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 to proper understanding.

The function of this device depends upon the software. Detailed information on loadable software and attainable functionality as well as the software itself can be obtained from the manufacturer's product database.

Planning, installation and commissioning of the device are carried out with the aid of KNX-certified software. Full functionality with KNX commissioning software version ETS3.0d onwards.

An updated version of the product database, technical descriptions and conversion programs and other auxiliary programs are available on our Internet website.

Intended use

- Switching of electrically driven roller shutters for 230 V AC mains voltage
- Mounting on DIN rail according to EN 60715 in distribution boxes

Product characteristics

- 4 independent channels, each for a single motor
- 2 x 2-channel operation possible
- Travel direction change-over time can be set separately for each output
- Safety travel in case of storm can be set separately for each output
- Behaviour in case of bus voltage failure and return can be set
- Short-time and long-time operation can be set separately for each output
- Outputs can be operated manually, construction site mode
- Automatic travelling time extension to adjust for various travelling times to the upper end position
- i For further product characteristics, please consult the associated KNX product documentation.

4 Operation

Operating elements

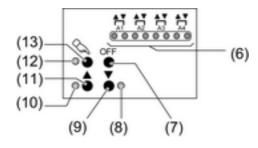


Figure 2

- (6) Status LEDs for outputs
- (7) Button **OFF**: Stop all hangings
- (8) LED ▼ on: hanging moves down, manual mode
- (9) Button ▼: move hanging downwards/Stop
- (10) LED ▲ on: hanging moves up, manual mode
- (11) Button ▲: move hanging up/Stop
- (12) LED 🗠 on: continuous manual mode
- (13) Button <a>♠: manual control

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Status indication

The status LEDs A1...A4 (6) indicate the states of the outputs.

- Off: Output switched off
- On: Output switched on
- Flashes: Output in manual mode

Operating modes

- Bus operation: Operation via push-button sensors or other bus devices
- Temporary manual mode: exclusively manual operation on the device with button field; automatic return to bus operation.
- Continuous manual mode: exclusively manual operation on the device with button field
- i When manual mode is activated, all safety travel in case of storm is aborted. If the safety travel in case of storm is still active after manual mode is exited, it will be completed then.
- i No manual mode is possible in case of bus failure.
- i After a bus failure and restoration the device switches to bus operation.
- i After a power failure and restoration the device switches to bus operation.
- i The manual mode can be disabled in ongoing operation via a bus telegram.

Priorities

- Highest priority: manual mode
- 2rd priority: safety function
- Lowest priority: bus mode: moving up/down

Switching on the temporary manual control

Operation using the button field is programmed and not disabled.

Press \(\sqrt{\text{button (13) for shorter than 1 second.}} \)

Temporary manual mode is switched on.

Status LEDs A1 (6) flash. LED \(\tag{12} \) remains off.

- i All channels are switched off during temporary manual mode.
- i After 5 seconds without a button-press, the actuator automatically returns to bus operation.
- i If a long press is made on the \(\) button (13) in temporary manual mode, the actuator switches to continuous manual mode.

Deactivating temporary manual control

The device is in short-term manual mode.

- No button-press for 5 seconds.
 - or -
- Press \(\sigma\) button (13) for shorter than 1 second until the actuator exits temporary manual mode

Bus operation is switched on.

Status LEDs **A1...A4** (6) no longer flash, but rather indicate the status of the corresponding output.

Switching on permanent manual control

Operation using the button field is programmed and not disabled.

■ Press the \(\square \) button (13) for longer than 5 seconds.

Continuous manual mode is switched on.

Status LEDs A1 (6) flash. LED \(\tag{12} \) lights up.

i All channels are switched off when manual mode is activated.

Deactivating permanent manual control

The device is in continuous manual mode.

■ Press the \(\square \) button (13) for longer than 5 seconds.

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LED \(\) (12) is off. Bus operation is switched on.

Operating the outputs

The device is in continuous or short-term manual mode.

■ Press \(\square\) button briefly, < 1 second, as many times as necessary until the desired output is selected.</p>

LEDs of the selected output A1...A4 flash.

The LEDs ▲ and ▼ indicate the status.

Operate output with ▲ or ▼ button.

Press for shorter than 1 second: stop blind/shutter.

Press for longer than 1 second: move blind/shutter up/down.

The selected hanging executes the corresponding commands.

The LEDs ▲ and ▼ indicate the status.

i Short-term manual operation: After running through all of the outputs the device exits manual mode after another brief press.

Stop all hangings

The device is in continuous manual mode.

Press the OFF button.

All outputs are shut off. The blinds/shutters stop.

5 Information for electrically skilled persons

5.1 Fitting and electrical connection

Fitting the device



DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before carrying out work on the device or load, disengage all the corresponding circuit breakers. Cover up live parts in the working environment.

Observe the temperature range. Ensure sufficient cooling.

Mount device on DIN rail. Output terminals must be at the top.

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Connecting a roller shutter actuator

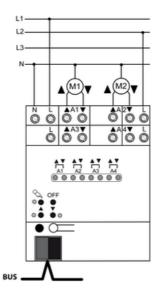


Figure 3: Connection example with two motors

- Connect bus cable to the roller shutter actuator using the connecting terminal (Figure 3).
- Connect mains voltage supply (Figure 3).
- Connect motors to load terminals A1 ... A4(Figure 3).
- Output **A1** and the device electronics of the actuator are supplied via a common lustre terminal. To supply power to outputs **A2** ... **A4** it is also necessary to connect any desired external conductor to the lustre terminals in question.
- i Delivery state: Outputs can be operated using button field, construction site mode.

Installing the cover

It is necessary to install a cover to protect the bus connection against hazardous voltages in the connection area.

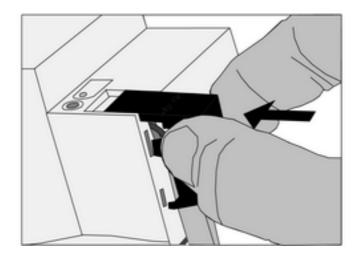


Figure 4: Installing the cover

- Route the bus cable towards the rear.
- Install cover on top of the bus terminal so that it snaps into place (Figure 4).

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Removing the cover

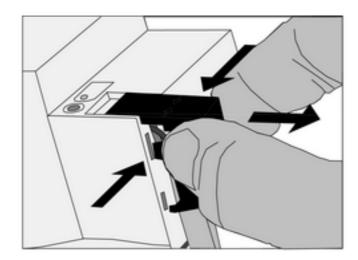


Figure 5: Removing the cover

Press the cover to the side and pull it off (Figure 5).

5.2 Commissioning

Measuring blind/shutter travelling time

The blind/shutter travelling times are important for moving the blind/shutter.

- Measure travelling time from the upper end position to the lower end position.
- Enter measured value in seconds in the parameter settings.

Load the address and the application software

- Switch on the bus voltage
- Assign physical address.
- Load the application software into the device.
- Note the physical address on the device label.

6 Appendix

6.1 Technical data

AC 230 / 240 V ~ 50 / 60 Hz max. 2 W
-5 +45 °C -25 +70 °C
AC 250 V ~ 6 A
72 mm / 4 modules
Screw terminal 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ²

KNX

KNX medium TP 1

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Commissioning mode Rated voltage KNX Power consumption KNX Connection mode KNX

DC 21 ... 32 V SELV typical 150 mW Connection terminal

6.2 Troubleshooting

Manual control with button field not possible

Cause 1: Manual control has not been programmed.

Program manual control.

Cause 2: Manual control via bus disabled.

Enable manual control.

Output cannot be operated.

Cause 1: Output is disabled.

Cancel disabling.

Cause 2: Safety function is active.

As long as a higher-order function is active for an output, this output cannot be operated.

None of the outputs can be operated.

Cause 1: All of the outputs are disabled-

Cancel disabling.

Cause 2: Continuous manual mode active.

Deactivate manual mode (switch off continuous manual mode).

Cause 3: Application software missing or faulty.

Check programming and correct.

Hanging does not move to end position

Cause: Hanging operation time has been set incorrectly.

Correct hanging operation time.

6.3 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error 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 - 602-399

www.gira.de info@gira.de

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