Flush-mounted switching actuator
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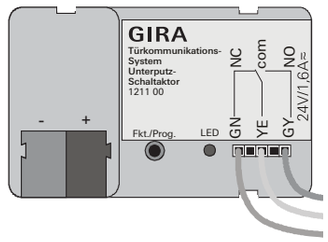
Device description

The flush-mounted switching actuator is part of the Gira door communication system.
Switching functions controlled via the 2-wire bus are triggered via the zero-voltage relay contact (24 V SELV, 50 µA to 1.6 A AC/DC) of the flush-mounted switching actuator.



Connection terminals

– / + (Bus)
The flush-mounted switching actuator is connected to the 2-wire bus via the "– / +" terminals.

Neutral BUS

Polarity need not be taken into account for connection to the "- / +" terminals, the polarity of the Gira door communication system 2-wire bus is neutral.

Zero-voltage relay contact
The device to be switched is connected to the relay contact. Depending on the selected operating mode, this can be e.g. an additional gong or an automatic staircase mechanism (SELV).

Voltages of up to max. 24 V SELV can be switched

The relay contact of the flush-mounted switching actuator is designed for voltages of up to max. 24 V SELV. If a 230 V device, e.g. illumination, is to be connected, a corresponding additional device (relay or similar) is required.

Installation

Important

Installation and mounting of electrical devices may only be carried out by a qualified electrician.

The flush-mounted switching actuator is intended for installation in a deep wall box (60 mm deep), e.g. behind a door-communication bus coupler.

Operating elements and indicators

"Fkt./Progr." button
The "Fkt./Progr." button has the following functions:

1. System programming mode active:
   Starting programming mode of the flush-mounted switching actuator.
   If the "Fkt./Progr." button is pressed for 3 seconds while the system is in programming mode, the programming mode of the flush-mounted switching actuator is started. The LED flashes red in programming mode.
   Briefly pressing the "Fkt./Progr." button exits the programming mode of the flush-mounted switching actuator again.

Terminating switching-actuator programming mode

When terminating the programming mode at the control device, the switching actuator programming mode is also termintated.

2. System programming mode active:
   Setting the operating mode.
   The required operating mode can be set with the "Fkt./Progr." button. The next operating mode is selected with each short button press.
   The LED shows the active operating mode via various flashing frequencies.
3. In normal operating mode:
   Actuation of the connected device (e.g. for testing the switching function).
   By briefly pressing the "Fkt./Progr." button in the operating mode, the connected device is activated based on the set operating mode. The LED lights up red during the switching time.
4. In normal operating mode:
   Setting the switching time.
   Pressing the "Fkt./Progr." button defines the switching time. The button is pressed until the desired switching time is indicated by the green LED flashing.
   Depending on the operating mode, the setting time is in the range of 1 to 10 seconds or 1 to 10 min.

Function display of the LED

The flush-mounted switching actuator has a dual LED that shows the various operating states and functions in two colours (red/green):

LED colour	Signal	Progr. mode		Meaning
		Control device	Switching actuator	
green	flashes 1 x	on	off	Operating mode: Switching
green	flashes 2 x	on	off	Operating mode: Timer/sec
green	flashes 3 x	on	off	Operating mode: Timer/min
green	flashes 4 x	on	off	Operating mode: Impulse
red	Continuous flashing	on	on	Progr. mode switching actuator active
red	Continuously on	on	on	Switching actuator memory full
red	Continuously on	off	off	Switching function is being carried out
green	flashes 1 - 10 x	off	off	Switching time setting
red	Rapid flashing	on	off	Assignment deleted

Setting operating mode

The flush-mounted switching actuator can be operated in 4 operating modes:

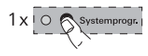
- Switching (flashes 1 x)
- Timer/sec. (flashes 2 x)
- Timer/min. (flashes 3 x)
- Impulse (flashes 4 x, as-delivered state)

Proceed as follows to select the desired operating mode:

1. Start programming mode at the **control device** by pressing the "Systemprogr." button for 3 seconds until the LED next to the button starts flashing.

✓ On the **flush-mounted switching actuator,** the LED flashes green and shows the currently active operating mode.

2. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** several times until the green LED flashes with the frequency of the desired operating mode.



3. Press the "Systemprogr." button on the **control device** to exit programming mode of the flush-mounted switching actuator.

✓ The last set operating mode is activated.

Changing over operating mode after programming

If the operating mode of a previously programmed flush-mounted switching actuator is switched, the programming remains intact.
When only switching between switching functions, e.g. from "Switching" to "Timer/min.", the switching function with the modified conditions is executed.

Setting the switching time

The "Fkt./Progr." button defines the activation duration of the connected device. Depending on the selected operating mode, the setting time is in the range of 1 to 10 seconds or 1 to 10 min.
The setting time is indicated by the green LED flashing.
Time setting:
flashes 1 x = 1 s or 1 min
flashes 10 x = 10 s or 10 min
The switching time is set in normal operation:

1. On the **flush-mounted switching actuator**, press the "Fkt./Progr." button and keep it pressed.

✓ The LED starts flashing green after 3 seconds.

2. Keep the "Fkt./Progr." button pressed until the desired number or flashing impulses is reached.

Example:
To set a switching time of 5 minutes (operating mode Timer/min), press the "Fkt./Progr." button on the switching actuator in normal operation and keep the button pressed until the LED has flashed green 5 times.

Information on programming

Automatic assignment

The flush-mounted switching actuator is automatically assigned to the button of the home stations or the push button inputs of the push button interface. If the flush-mounted switching actuator is programmed to a different button, this automatic assignment is lost.

If a switching actuator function is to be executed when a call button is pressed while a home station call is made, the switching actuator function must be assigned first, followed by the home station.

Assignable buttons

The following buttons can be assigned to the flush-mounted switching actuator:

- Button of the home stations (automatic assignment)
- Button of the home stations
- Mech. button on the ET terminal
- Call button of the door stations
- Call buttons for home stations (left: ON, right: OFF)
  It is irrelevant whether the button is operated to the left or right when programming a call button for home stations. The left button is automatically ON and the right one is OFF.
- Buttons of a telephone (via the TC gateway)
- Zero-voltage buttons (via the door communication 2-gang push button interface)

"Switching" operating mode

In the "Switching" operating mode, the device is activated via the press of a button and remains activated until the button is pressed again.

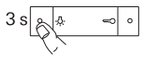
Programming "Switching"

1. Start programming mode at the **control device** by pressing the "Systemprogr." button for 3 seconds until the LED next to the button starts flashing.

✓ On the **flush-mounted switching actuator,** the LED flashes green and shows the currently active operating mode.

2. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** several times until the LED flashes green once.

3. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** for 3 seconds until the LED flashes red.



4. On the **door station** or **home station**, press the button to be assigned for 3 seconds until you hear a short acknowledgement tone.

✓ A long acknowledgement tone confirms successful assignment.

5. Press the "Systemprogr." button on the **control device** to exit the programming mode.

"Timer/sec." operating mode

The "Timer/sec." operating mode (1 - 10 seconds) could be used for direct operation of the door opener of a side door, for example. It can then be operated directly, even if no calls were previously initiated from the side door.
After the button is pressed, the contact closes according to the set time. The activation time can set at between 1 to 10 seconds. If switching is carried out again before the set time expires, the set time begins again.

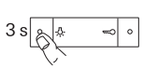
Programming "Timer/sec."

1. Start programming mode at the **control device** by pressing the "Systemprogr." button for 3 seconds until the LED next to the button starts flashing.

✓ On the **flush-mounted switching actuator,** the LED flashes green and shows the currently active operating mode.

2. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** several times until the LED flashes green twice.

3. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** for 3 seconds until the LED flashes red.



4. On the **door station** or **home station**, press the button to be assigned for 3 seconds until you hear a short acknowledgement tone.

✓ A long acknowledgement tone confirms successful assignment.

5. Press the "Systemprogr." button on the **control device** to exit the programming mode.

"Timer/min." operating mode

The "Timer/min." (1 - 10 minutes) operating mode is used e.g. for the operation of path illumination or staircase illumination (without safety function).
After the button is pressed, the contact closes according to the set time. The activation time can be set between 1 to 10 min. If switching is carried out again before the set time expires, the set time begins again.

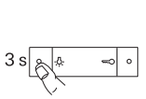
Programming "Timer/min."

1. Start programming mode at the **control device** by pressing the "Systemprogr." button for 3 seconds until the LED next to the button starts flashing.

✓ On the **flush-mounted switching actuator,** the LED flashes green and shows the currently active operating mode.

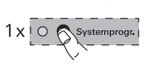
2. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** several times until the LED flashes green three times.

3. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** for 3 seconds until the LED flashes red.



4. On the **door station** or **home station**, press the button to be assigned for 3 seconds until you hear a short acknowledgement tone.

✓ A long acknowledgement tone confirms successful assignment.



5. Press the "Systemprogr." button on the **control device** to exit the programming mode.

"Impulse" operating mode

The "Impulse" operating mode could be used for the operation of an existing automatic staircase mechanism, for example.
The contact closes for 0.4 seconds after the button is pressed.

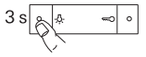
Programming "Impulse"

1. Start programming mode at the **control device** by pressing the "Systemprogr." button for 3 seconds until the LED next to the button starts flashing.

✓ On the **flush-mounted switching actuator,** the LED flashes green and shows the currently active operating mode.

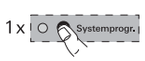
2. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** several times until the LED flashes green four times.

3. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** for 3 seconds until the LED flashes red.



4. On the **door station** or **home station**, press the button to be assigned for 3 seconds until you hear a short acknowledgement tone.

✓ A long acknowledgement tone confirms successful assignment.



5. Press the "Systemprogr." button on the **control device** to exit the programming mode.

Deleting assignments of the flush-mounted switching actuator

This deletes all existing assignments of the flush-mounted switching actuator:

1. Start programming mode at the **control device** by pressing the "Systemprogr." button for 3 seconds until the LED next to the button starts flashing.

✓ On the **flush-mounted switching actuator,** the LED flashes green and shows the currently active operating mode.

2. Press the "Progr." button on the **flush-mounted switching actuator** for 6 seconds to delete all assignments of the flush-mounted switching actuator. The LED flashes red after 3 seconds.
Keep the button pressed for additional 3 seconds until the LED flashes rapidly red.

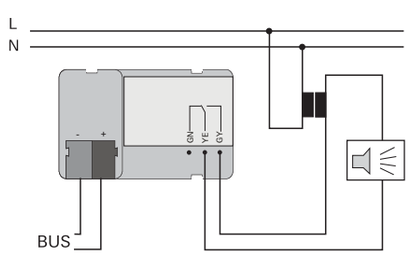
✓ After completion of the deletion function, the LED flashes green again and shows the currently active operating mode.

3. Press the "Systemprogr." button on the **control device** to exit the programming mode.

Behaviour of the flush-mounted switching actuator after the assignments are deleted
Once you have deleted all assignments of the flush-mounted switching actuator, the flush-mounted switching actuator is automatically reassigned to the button of the home stations.

Application example "Additional signalling"

The additional signalling (external bell, vibrating pad etc.) is to be activated parallel to the called home station after a call button is pressed.



1. Start programming mode at the **control device** by pressing the "Systemprogr." button for 3 seconds until the LED next to the button starts flashing.

✓ On the **flush-mounted switching actuator,** the LED flashes green and shows the currently active operating mode.

2. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** several times until the LED flashes with the frequency of the "Timer/sec." operating mode (2x).

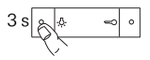
3. Press the "Fkt./Progr." button on the **flush-mounted switching actuator** for 3 seconds until the LED flashes red.

4. Press the call button on the **door station** for 3 seconds until you hear a short acknowledgement tone.

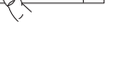
✓ A long acknowledgement tone confirms successful assignment.

5. Briefly press the "Fkt./Progr." button on the **flush-mounted switching actuator** to exit the programming mode of the flush-mounted switching actuator.

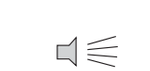
6. Press the call button on the **door station** for 3 seconds again until you hear a short acknowledgement tone.



7. Press the button on the **home station** for 3 seconds until you hear a short acknowledgement tone.



✓ A long acknowledgement tone confirms successful assignment.



8. Press the "Systemprogr." button on the **control device** to exit the programming mode.

Now set the desired switching time at the switching actuator:

9. On the **flush-mounted switching actuator**, press the "Fkt./Progr." button and keep it pressed.

✓ The LED starts flashing green after 3 seconds.

10. Keep the "Fkt./Progr." button pressed until the desired number or flashing impulses is reached.

Example:
To set a switching time of 3 seconds (operating mode Timer/min), press the "Fkt./Progr." button on the switching actuator in normal operation and keep the button pressed until the LED has flashed green 3 times.

Technical Data

Power supply:	26 V DC ± 2 V (bus voltage)
Relay contact:	50 µA to 1.6 A 24 V AC/DC SELV zero-voltage
Dimensions:	L x W x H 43 x 28 x 15 mm
Temperature range:	-5 °C to + 50 °C
Number of teachable call buttons:	Max. 16

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.