IP switching actuator
5566 000

GIRA

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Safety instructions

Electrical devices may only be moun-
ted and connected by a qualified elec-
trician.

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

Functional description

The IP switching actuator is part of the IP door
communication system.
Switching functions that are controlled via the
IP door communication system are executed
via the switching actuator's zero-voltage relay
contact.
The switching output has a bistable switching
relay so that switching states remain set se-
curely even in the event of a power failure.

Description of the device
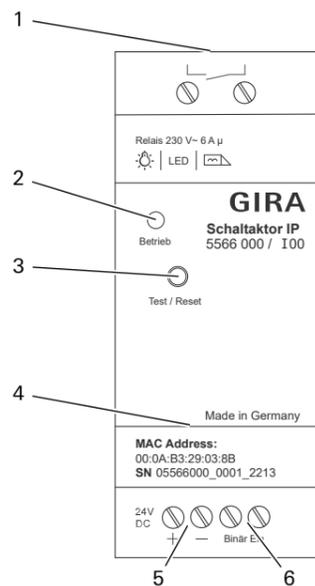
1 Zero-voltage relay contact
2 LED display
3 "Test/Reset" button
4 LAN connection
5 Power supply
6 Binary input (cable length max. 20 m)

Zero-voltage relay contact

The device to be switched is connected to the re-
lay contact.
Depending on the selected operating mode, this
may be, for example, a light or a door opener.

LED display

The LED can display the following operating
states:

lights up green:	Device ready for opera-tion
flashes green slowly:	Device not yet paramet-erised or incorrectly parameterised
flashes green quickly:	Time window for fact-ory reset active (30 s after booting)
lights up orange:	Restart, booting, factory reset in progress or firmware update in pro-gress
flashes orange	Diagnostic function for device identification
lights up red:	Network error: Network cable not plugged in, faulty/no network connection

"Test/Reset" button

The "Test/Reset" button has the following func-
tions:

short button press:	Switching contact is triggered
long key press (more than 30 s after booting)	Device is restarted
long key press (within 30 s after booting)	Factory reset

LAN connection

The switching actuator is connected to the local
network via a shielded LAN connection.

Power supply

Connection for the power supply (24 V DC) of the
switching actuator.

The power supply must meet the follow-
ing requirements:
suitable for overvoltage category III
Compliant with EN 61558-2-6/-2-16
We recommend a Gira 24 V DC power
supply (order no. 1296 00 or 2570 00) or a
Gira KNX power supply (order no. 2120
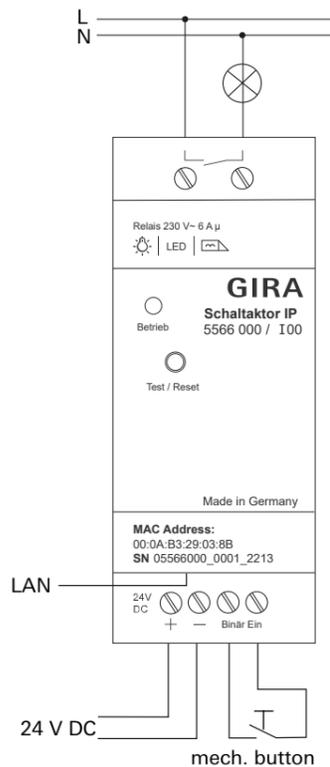00, 2122 00, 2130 00 or 213800).

Binary on

One or more mechanical buttons (NO contacts)
can be connected to the binary input, which can
then be used to trigger the switching functions.

Max. cable length
The max. cable length between the binary
input and the button is 20 m.

Mounting

1. For drip and splash-proof installation, mount
   the device on a top-hat rail in the distributor.
2. Connect the device, the power supply and
   the binary input via the respective screw ter-
   minals.
3. Insert the network cable for the LAN connec-
   tion into the RJ45 jack.

Fuse
The relay contact must be protected with
a 10 A circuit breaker.

Start-up

The IP switching actuator is started up using the
Gira Project Assistant (GPA version 6.0 or higher).
The GPA is used for door assignment and for se-
lecting the operating mode.

To start up the switching actuator, a door station
from the IP door communication system must be
available.

Behaviour of the relay contact during installation and start-up

The switching output has a bistable switching re-
lay so that switching states remain set securely
even in the event of a power failure.

Vibrations (e.g. during transport) can cause the
switching contact to switch to the "switching
state". This means that the switching contact
may be "open" or "closed" in the de-energised
state.

During start-up (booting) of the IP switching actu-
ator, the switching contact is set to the normal
state "normally open".

Device websites

The device website is accessed by entering the IP
address of the device into the address bar of a
web browser.

The IP switching actuator device website can be
used to configure network settings.

The "System devices" section of the door station
device website can be used to set the relay
switching duration, activate the binary input and
change the contact states.

Setting the operating mode

The switching actuator can be operated in four
different operating modes. The operating mode is
selected exclusively in the GPA.

"Timer (light)" operating mode

The "Timer (light)" operating mode is used, for ex-
ample, to control path lighting or staircase light-
ing (without a safety function). After the button is
pressed, the contact closes for the set time (1 s to
10 min). If switching occurs again before the set
time has elapsed, the set time restarts from the
beginning.

"Door opener" operating mode

In the "Door opener" operating mode, the switch-
ing actuator is controlled by the button on the
home station. The activation time of the door
opener can be set in the range from 1 s to 10 min.

"Switch" operating mode

In the "Switch" operating mode, the device is
switched on by pressing a button and remains
switched on until it is switched off again by press-
ing a button.

"Pulse" operating mode

The "Pulse" operating mode is used, for example,
to control an existing staircase timer. After the
button is pressed, the contact closes for 0.4 s.

Replacing the switching actuator

If a switching actuator is replaced due to a defect,
the new switching actuator must be reconfigured
using the GPA.

Important
The switching actuator must be discon-
nected from the supply voltage before be-
ing replaced.
Check that the load circuit is de-ener-
gised.

Replacing the connected door station

If the door station connected to the IP switching
actuator is replaced, the switching actuator must
be reset to the factory settings before the new
start-up.

When the new intercom module is started up via
the GPA, the IP switching actuator is automatic-
ally started up once again.

Factory reset

The IP switching actuator is reset to the factory
setting as follows:

1. Switch off the supply voltage of the IP
   switching actuator.
2. Switch the supply voltage of the IP switching
   actuator back on.
✓ The LED flashes green quickly for 30 s.
3. Press and hold the "Test/Reset" button for at
   least 10 s.
✓ The LED flashes red at one-second intervals.
4. Release the "Test/Reset" button.
✓ The factory reset with subsequent restart is
   carried out.
✓ After the restart, the LED flashes green
   slowly.

Technical data

Power supply:	21 V to 31 V DC e.g. Gira power supply (order no. 1296 00 or 2570 00).
Relay contact:	230 V AC/6 A 30 V DC/2 A zero-voltage
Load types	
Light bulb:	230 V AC/6 A
LED:	230 V AC/100 W
Door opener:	30 V DC/2 A
Power consumption	
In idle state with net-work link:	0.6 W (24 VDC, 25 mA)
During switching:	1.8 W (24 VDC, 77 mA) for a duration of 0.1 s
Dimensions:	DRA device /2 MW
Temperature range:	-5°C to +55°C

Licence conditions

The product contains software, the use of which
is subject to the Gira licence conditions. By in-
stalling and using the software, you agree to
these licence conditions.

The software contained in the product contains
software components from third-party providers
(Third Party Intellectual Property – TPIP).

The licence agreement and the overview of the
TPIP licences and their licence texts can be found
at:

link.gira.com/5566License

Privacy Policy

Gira Giersiepen GmbH & Co. KG, as the controller,
processes personal data when using the products
for the purpose of providing the services and sup-
port as well as for the further development and
improvement of the products. As a data subject,
you have the right of access, right to rectification,
right to erasure, right to restriction of processing,
right to object, and right to data portability vis-à-
vis the controller.

For more information on the processing of your
personal data, please refer to our Privacy Policy:

https://partner.gira.com/en/datenschutz/gira-ip-
geraete.html

Warranty

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

Please hand over or send faulty devices postage
paid and with a description of the problem to your
sales representative (retailer/installation company/
electronics retailer).

They will forward the devices to the Gira Service
Centre.