

# System 106 fingerprint module **GIRA**

5551 ...



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## General safety instructions

Electrical devices may only be installed and connected by a qualified electrician!

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

### Required accessories

- System 106 surface-mounted housing, 1-gang to 5-gang (item no. 5501 ..., 5502 ..., 5503 ..., 5504 ..., 5505 ...) or System 106 flush housing, 1-gang to 5-gang (item no. 5511 ..., 5512 ..., 5513 ..., 5514 ..., 5515 ...)

### Accessories

- System 106 voice module (item no. 5563 ..) with call-button module (553. ..) or door station module (item no. 5565 9.).
- Video control device (item no. 1288 00) or audio control device (item no. 1278 00).
- Gira home station
- Power supply for door communication DC 24 V 300 mA (item no. 1296 00).

## Functional description

The fingerprint module serves as access control based on biometric characteristics of human fingers. Up to 100 fingers can be taught in. The module can be operated as an individual device or integrated into the Gira door communication system.

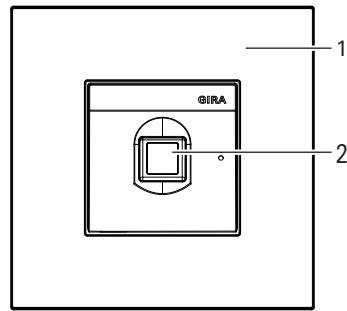
### Scope of delivery

- 1 x System 106 door fingerprint module
- 1 x safety card
- 1 x operating instructions

Ensure the package contents are complete and undamaged. Please see "Warranty" in the case of any defects.

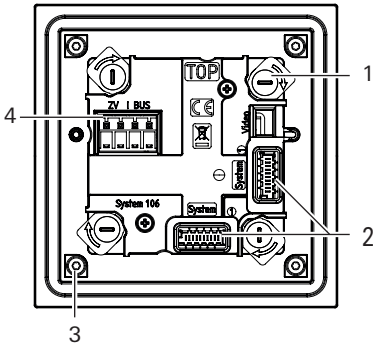
### Device description

### Front view



- 1 Front plate
- 2 Sensor

### Rear view



- 1 Turning bolt (4x)
- 2 Socket (2x): System cable
- 3 Mounting (4x): Module front
- 4 Screw terminal: TC bus and additional power supply

## Areas of application

### Use without door communication system

If the fingerprint module is only to be used to trigger switching actions or to open doors without an accompanying speech or video connection, installation without a full door communication system is possible: Instead of a control device, the fingerprint module bus interface can be used, for example, to supply switching actuators, button interfaces or other Keyless In devices. Devices for voice or video connections cannot be connected.

A DC 24 V 300 mA power supply is connected to the additional power supply (AS) terminals of the fingerprint module to supply the devices. Its voltage is then fed to the TC bus, to which the remaining devices are connected. The bus supply must be activated in the Keyless In app or directly on the device when starting-up the fingerprint module.

Due to the devices' different power consumption, the devices sometimes count as multiple devices:

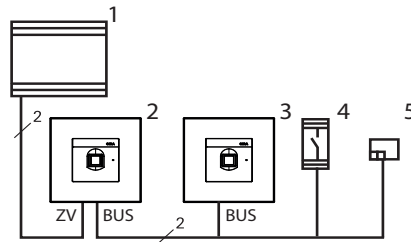
- DCS switching actuator: 1 device
- Button interface: 1 device
- Additional Keyless In devices: 7 devices

When selecting devices, do not exceed the maximum number of 20 devices.

The maximum cable lengths from the DC 24 V additional power supply via the fingerprint module to the last device are as follows:

- 100 m with 0.6 mm wire diameter
- 150 m with 0.8 mm wire diameter

The supplying fingerprint module can be located at any point.

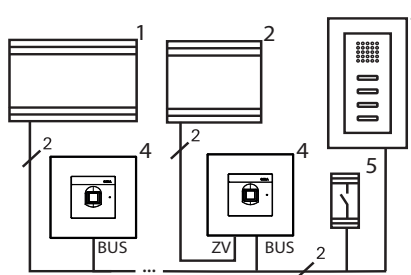


- 1 Power supply DC 24 V 300 mA
- 2 System 106 fingerprint module, supplying the TC bus
- 3 System 106 fingerprint module
- 4 DCS switching actuators
- 5 Button interface

The TC bus is connected to the fingerprint module bus terminals. The DC 24 V power supply is connected to the AS terminals. Only one Keyless In module may be connected to this DC 24 V power supply. The TC bus supply must be activated during start-up. After a factory reset, the TC bus supply is deactivated.

### Use as a stand-alone module in the door communication system

The fingerprint module can be operated in the door communication system independently of door stations.



- 1 Control device
- 2 DC 24 V power supply
- 3 Home station
- 4 System 106 fingerprint module
- 5 DCS switching actuator

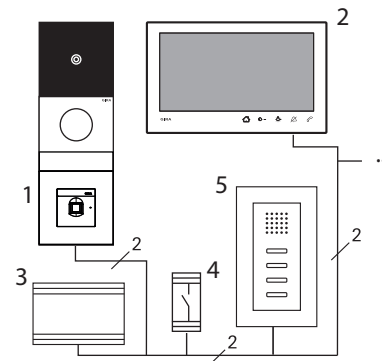
The connection to the TC bus is made using the "Bus" screw terminals. An additional power supply can be connected to the "AS" screw terminals.

If no additional power supply is connected, the fingerprint module reduces the maximum possible number of devices depending on the control device used as follows:

- Audio control device: The fingerprint module replaces 16 audio devices.
- Video control device: The fingerprint module replaces 10 audio or 4 video devices.

## Use in a System 106 door station

The system cable can be used to connect the fingerprint module to System 106 modules and the door communication system. This way, the fingerprint module can, for example, trigger a switching action from a switching actuator.



- 1 System 106 door station with fingerprint module
- 2 Surface-mounted video home station 7
- 3 Video control device
- 4 DCS switching actuator
- 5 Home station

Power is supplied via the "System" connection.

### Do not assign screw terminals

The fingerprint module screw terminals "AS" and "Bus" must not be occupied.

If no additional power supply is connected, the fingerprint module reduces the maximum possible number of devices depending on the control device used as follows:

- Audio control device: The fingerprint module replaces 16 audio devices.
- Video control device: The fingerprint module replaces 10 audio or 4 video devices.

### Protecting the control device against unauthorised access

In areas requiring a high level of security, the control device should be secured (locked) against unauthorized access.

## Mounting the module

### Mounting the module

The following steps can be found in the mounting instruction for the System 106 surface-mounted housing 1- to 5-gang or flush-mounted housing 1- to 5-gang:

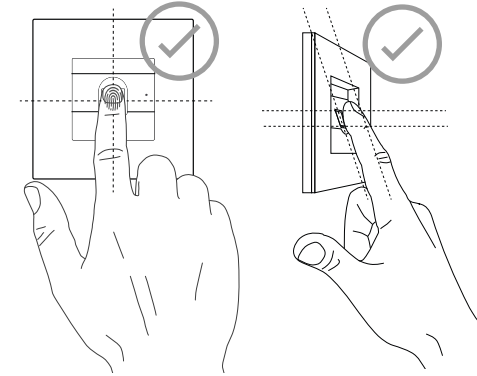
- Lock the module on the mounting frame.
- Connect the system cable.
- Place terminating resistors
- Swivel the function carrier into the surface-mounted housing and screw it in place.

## Operation

The previously taught-in finger only needs to be placed on the fingerprint module once to operate it.

### Place finger

To ensure the fingerprint module functions properly, fingers must be placed correctly during both the teaching-in process and subsequent operation. It is important that the finger area with the most prominent fingerprint swirls (centre of fingertip) is detected by the fingerprint sensor. For this reason, place fingers as shown.



## Acknowledgement signals

LED	Tone	Meaning
lights up green	1 x long	positive acknowledgement signal, e.g.: <ul style="list-style-type: none"> <li>• Input successful</li> <li>• Finger recognised</li> </ul>
flashes green	-	Device is in delivery state
lights up red	3 x short	negative acknowledgement signal, e.g.: <ul style="list-style-type: none"> <li>• Finger not recognised</li> <li>• Input not correct</li> </ul>
lights up orange	-	Administrator mode or SysProg is active
lights up blue	-	Bluetooth connection active
lights up red	4 x short	A negative acknowledgement signal for an access attempt outside the permitted time period in the case of a time-limited access authorization

### Acknowledgement tone off

If the acknowledgement tone is switched off, no acknowledgement tones sound. The acknowledgement signals are given solely by the LED.

## Start-up

The fingerprint module can be put into operation and configured using the Gira Keyless In app or manually on the device. You must choose an operating mode when starting up the module. It is more complex to change this after the start-up phase. We recommend using the app to start up the module. The Gira Keyless In app is free to download from various app stores.

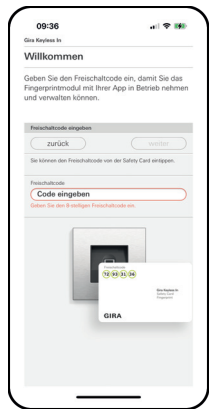
Apple iOS



Android:



## Starting-up with the Gira Keyless In app



1. Download the Gira Keyless In app to the administrator's mobile device:
2. Start the app and follow the instructions on the screen.

### Activation code

The activation code required for start-up can be found on the enclosed safety card.

### Starting-up without the app

If you want to perform start-up manually, please refer to the instructions on the next page.

## Manual start-up

Start-up is carried out using the following steps:

- Teach in first administrator
- Teach in user finger
- Configure fingerprint module
- for use in the door communication system: Assign door-opener / switching actuators



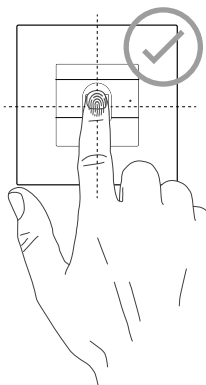
### Detailed start-up instructions

Detailed instructions for manual start-up can be found in the Gira download section under:



## Basics for teaching in a finger

1. Place the finger to be taught in in the middle of the sensor until the short acknowledgement tone sounds.



2. As soon as the LED lights up orange, place the finger on the sensor again.
3. Repeat steps 1 to 2 several times.
4. The finger is taught in when a long acknowledgement tone sounds and the LED lights up green.

Users with very dry, greasy or moist skin may need to place the finger they wish to teach in up to 15 times. A negative signal (3 short tones) will be heard immediately if a finger has already been recognised or a fingerprint has insufficient features (or features that have already been recognised).

If a negative signal (3 short tones) is heard after the 15th attempt, the finger has not been successfully taught in.

If this happens, place the finger again (step 1) or use another finger. Follow the instructions above for this.

## Commands for teaching in and deleting taught-in fingers

You can mark the taught in fingers in the table on the right hand side.

Function	Start mode	LED mode active	Touch with finger	Tone
Teach in first administrator		flashes green	Admin <sub>NEW</sub> (15x) → Progr. <sub>NEW</sub> (15x)	2 x long
Teach in user finger	Admin → Progr. → Admin	orange	User <sub>NEW</sub> (15x)	2 x long
Teach in further administrators	Admin → Admin → Progr.	orange	Admin <sub>NEW</sub> (15x) → Progr. <sub>NEW</sub> (15x)	2 x long
Delete administrator	Admin → Progr. → Progr.	flashes red	Admin or Progr.	1 x long
Delete user finger	Admin → Progr. → Progr.	flashes red	Users	1 x long
Factory reset (delete all assignments)	Admin → Admin	flashes red	Admin <sub>(7s)</sub>	2 x long

## Commands for configuring the fingerprint module

Function	Start mode	LED mode active	Change setting	Tone
Set illumination level (off, level 1, level 2)	Progr. → Admin	flashes orange twice	Admin	1 x long
Set acknowledgement tone level (on, off)	Progr. → Admin	flashes orange twice	Progr.	1 x long

## Commands for use without door communication system

Function	mode, switch	LED mode switched	Tone
Switch system programming mode on/off	Progr. → Progr. → Progr.	flashes orange	1 x long
Switch DCS bus power supply on/off	Progr. → Progr. → Admin	flashes orange	1 x long

## Commands for assignments in the door communication system: Assign switching actuator

Function	mode start	LED mode active	Assign	Tone
assign switching actuator (individual assignment) or Delete assignment	Control device → System progr. Switching actuator → Progr.	flashes orange	Users	1 x long
assign switching actuator (group assignment) or Delete assignment	Control device → System progr. Switching actuator → Progr.	flashes orange	Admin	1 x long

## Commands for assignments in the door communication system: Assign door-opener

Function	mode start	LED mode active	Assign	Tone
Stand-alone devices (without door station): Assign door-opener	Control device → System progr. Control device → door-opener progr.	flashes orange	Progr. → Progr. → Admin	1 x long
Assign door-opener (individual assignment) or Delete assignment	Control device → System progr. Control device → door-opener progr.	flashes orange	Users	1 x long
Assign door-opener (group assignment) or Delete assignment	Control device → System progr. Control device → door-opener progr.	flashes orange	Admin	1 x long

## Overview of administrators

Administrator	Admin finger	Programming finger
Example administrator		

## User finger overview

User / function	User finger

## Technical data

Power supply:	via system (flat ribbon cable, 10-pole) or via control device or via AS (DC 24 V 300 mA)
Power intake	650 mW
Stand-by mode:	2 x system
Connections:	2 x additional supply 2 x 2-wire bus
Ambient temperature:	-25°C to +70°C
Protection type:	IP54
Dimensions (W x H):	106.5 x 106.5 mm
Radio frequency:	2.402 - 2.480 GHz
Transmission capacity:	max. 2,5 mW, Class 2
Transmitting range:	typ. 10 m

## Conformity

Gira Giersiepen GmbH & Co. KG hereby declares that the radio system type art. no. 5551 .. meets the directive 2014/53/EU. You can find the full article number on the device. The complete text of the EU Declaration of Conformity is available under the Internet address: [www.gira.de/konformitaet](http://www.gira.de/konformitaet)

## Warranty

The warranty is provided in accordance with the statutory requirements via the retailer. Please submit or send faulty devices postage paid and with a fault description to your sales representative (retailer / installation company / electronics retailer). This person will forward the devices to the Gira Service Centre.

# GIRA

## Gira

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