

System 106 fingerprint module GIRA

5551 ...



10867953 06/22

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.

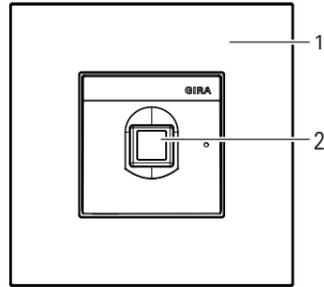
Scope of delivery

- 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.

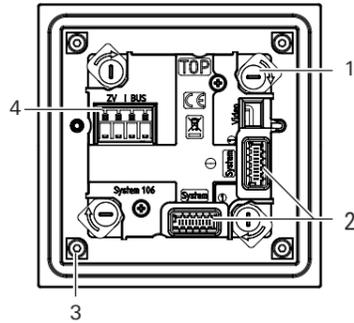
Device description

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:

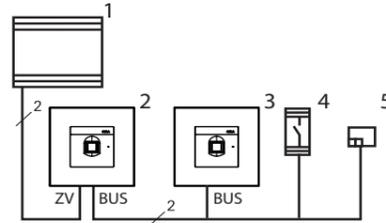
- DCS switching actuator: 1 device
- Button interface: 1 device
- Additional Keyless In devices: 7 devices

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.

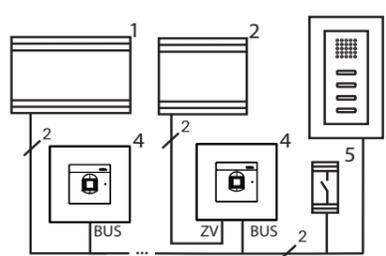


- 1 Power supply DC 24 V 300 mA
- 2 System 106 fingerprint module, supplying the TC bus
- 3 System 106 fingerprint module
- 4 DCS switching actuators
- 5 Button interface

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

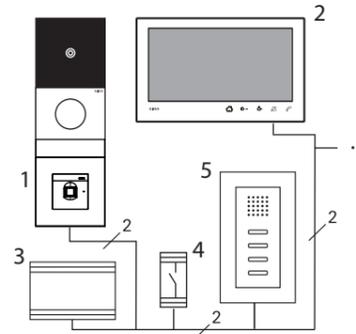
The connection to the TC bus is made using the "Bus" screw terminals. An additional power supply can be connected to the "AS" screw terminals.

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.

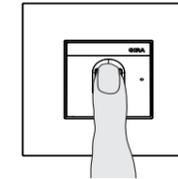
Operation

It is only necessary to place the previously taught-in finger once on the module to operate fingerprint module.

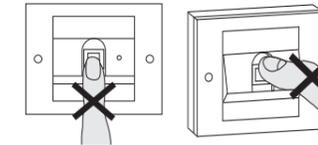
Touch with finger

To ensure the fingerprint module functions properly, the finger must be correctly positioned during both the teaching in process and subsequent operation. Ideally:

Place the area with the strongest fingerprint swirl (the centre of the fingertip) centrally on the sensor.



False



Acknowledgement signals

LED	Tone	Meaning
lights up green	1 x long	positive acknowledgement signal, e.g.: <ul style="list-style-type: none"> Input successful Finger recognised
flashes green	-	Device is in delivery state
lights up red	3 x short	negative acknowledgement signal, e.g.: <ul style="list-style-type: none"> Finger not recognised Input not correct
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. When starting operation, you must choose an operating mode. Subsequent changes are only possible with additional effort.

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.

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

