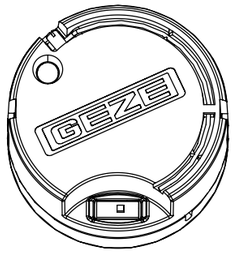


GC 175
Wireless input module

EN Supplementary sheet

183157-01

GEZE

1 Brief description of wireless kit

The wireless kit is part of the GEZE hold-open system FA GC 150 or FA GC 160.
The wireless module GC 171, ID 163051, makes wireless communication possible between the lintel-mounted smoke switch and the various wireless devices.

- Wireless ceiling-mounted smoke detector GC 172, ID 159656
- Wireless ceiling-mounted thermal detector GC 173, ID 159657
- Wireless input module GC 175, ID 163068 (for the connection of manual trigger switches or contacts for the fire detector system)

2 Wireless input module GC 175

2.1 Use

The GC 175 is a wireless input module for use in the GEZE hold-open system FA GC 150 or
FA GC 160. Signal transfer from the wireless input module takes place wirelessly.

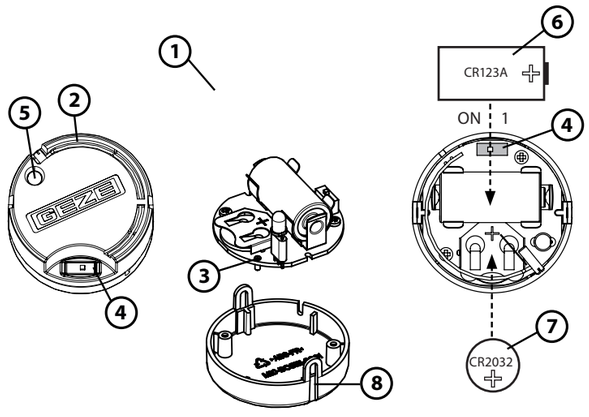
i A wireless module GC 171 is essential for use of the wireless input module GC 175.

The wireless input module monitors the switching state of a N/O contact and sends this per wireless signal to a wireless module GC 171. The N/O contact can be the contact of a manual trigger switch or the contact of a fire detector system.

i Heed the document for the hold-open system FA GC 150 or FA GC 160 - Instructions for the installation, commissioning, operation and maintenance, see www.geze.com.

2.2 Technical data

Wireless input module GC 175	ID 163068
comprising:	Wireless input module GC 175 Main battery and slave battery Resistor 2.2 kΩ
Battery set (spare)	ID 163228
Spare resistor	ID 163229
Main battery	Type CR 123A (3 V DC)
Slave battery	Type CR 2032A (3 V DC)
Colour	Matt black
Dimensions (dia. x H)	52 mm x 32 mm
Line length Cable length	130 mm
Line monitoring	Termination resistor 2.2 kΩ at the end of the line
Functional principle	Signals the state of an external potential-free contact (N/O contact) to the wireless module GC 171, monitors the line to the contact for breaks
Installation position	Installation in flush-mounted socket or cavity box. Installation in such a way that removing the wireless module and manual trigger switch is only possible after these two assemblies have been disconnected from one another (e.g. installation of the two assemblies in two different flush-mounted sockets).
IP rating (in acc. with EN 60529)	IP20, only for dry areas
Ambient temperature	-5°C to 50°C
Service life main battery	5 years
Signal transfer period	60 s
Antenna	integrated
Frequency range	868.15 MHz to 869.85 MHz
Range	10 m (100 m in space)
Quantity	Frequency channels 7
Modulation technique	FSK (frequency shift keying)
Radiated power	5 dBm (3 mW)



1 Housing
2 Antenna
3 Antenna socket
4 Set-up switch
5 LED for displaying state
6 Main battery
7 Slave battery
8 Housing tab

CAUTION Component at risk from electrostatic charge
Do not touch the antenna!

2.3 Connection of a potential-free contact to the wireless input module GC 175

Use cable type J-Y(ST)Y, 2x0.6 mm or 2x0.8 mm. Length max. 3 m.

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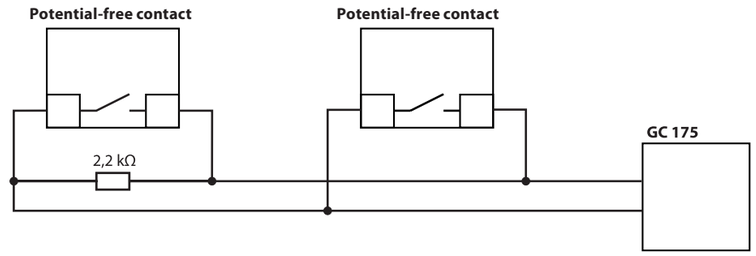
- Installation in such a way that removing the wireless input module and manual trigger switch is only possible after these two assemblies have been disconnected from one another (e.g. installation of the two assemblies in two different flush-mounted sockets).
- Connect the potential-free contact as a N/O contact.
- Several contacts are connected in parallel.
- A 2.2 kΩ resistor is connected in parallel to the last contact.



2.4 Signalling

State, event	LED for displaying state
Switch on after removal of the insulation film or after the main battery has been inserted	flashes 10 x green, then red briefly, then the LED is off
Start set-up of the wireless connection	flashes 1 x green, 1 x yellow, 4 x red
Fault during set-up of the wireless connection	red
Operation	off
Broken cable	off
Main battery discharged	flashes yellow (0.1 s on – 5 s off)
Slave battery discharged	flashes green (0.1 s on – 5 s off)
Main and slave batteries discharged	flashes yellow/green alternately (0.1 s on – 5 s off)
Other faults	flashes yellow/green alternately (0.5 s off each)
Contact closed, short-circuit	flashes 1 x red

2.5 Battery replacement

The wireless detector signals “Low battery charge” to the wireless module GC 171 if the charge state of the batteries is no longer sufficient. Both batteries (main battery and slave battery) always have to be replaced together. The set-up switch for the wireless detector must not be activated.

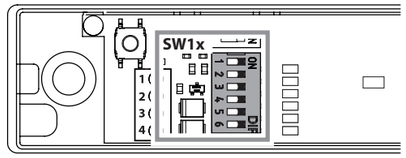
- ▶ 1. Bend the tabs on the side of the bottom part of the housing open slightly and pull the top part of the housing up and off carefully (the antenna will be pulled out of the antenna socket at this point).
- ▶ 2. Remove the main battery.
- ▶ 3. Use a small screwdriver to carefully remove the slave battery.
- ▶ Ensure that the PCB does not become damaged.
- ▶ 4. Slide the new slave battery (type CR2032A) into place – the positive pole faces upwards.
- ▶ 5. Insert the new main battery (type CR123A) – make sure polarity is correct.
- ▶ 6. Replace the top part of the housing carefully, making sure the antenna meets the antenna socket.
- ▶ 7. Replace the top part of the housing in such a way that the two tabs engage again.
- ▶ 8. Test the wireless input module. To do this, activate the connected contact. The hold-open system must trigger and close the door leaf. The status LEDs of the wireless module GC 171 and the lintel-mounted smoke switch light up yellow.

2.6 Connect the wireless input module GC 175 to wireless module GC 171

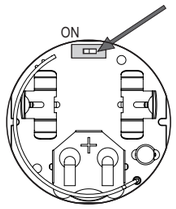
Set up a new wireless connection

A maximum of 6 wireless connections can be set up at one wireless module GC 171:

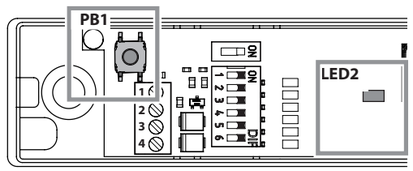
- 1. All the wireless device switches of the wireless module GC 171 are in the OFF position.



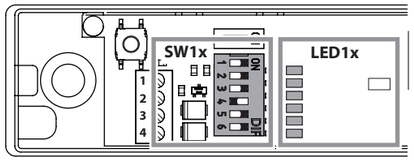
- 2. The set-up switch of the new wireless input module is set to the ON position.



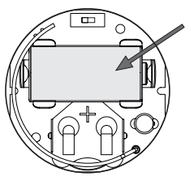
- 3. The protective film is on the battery compartment of the new wireless input module and the main battery for the new wireless input module has not been fitted
- 4. Switch the supply voltage for the wireless module GC 171 on. The wireless module is in “operating” mode
- 5. Press the PB1 push button on the wireless module GC 171 briefly to change to the “set up wireless connection” mode. The status LED2 of the wireless module GC 171 is now permanently lit red.



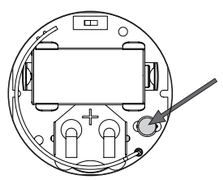
- 6. Slide a free wireless device switch SW1x of the wireless module GC 171 to the ON position. The corresponding wireless device LED1x starts to flash green. If a connection has already been set up for the wireless device switch selected, this is overwritten by the following process. The wireless module GC 171 waits for the connection query for a new wireless device. If a new wireless device does not respond within 2 minutes, the wireless module GC 171 cancels the connection attempt, the corresponding wireless device LED1x lights up red. To start the connection attempt again, slide the corresponding wireless device switch SW1x to the OFF position briefly, then slide it back into the ON position. The corresponding wireless device LED1x now flashes green again for 2 minutes.



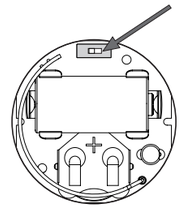
- 7. Remove the protective film from the battery compartment of the new wireless input module and install the main battery in the new wireless input module. Make sure of correct polarity.



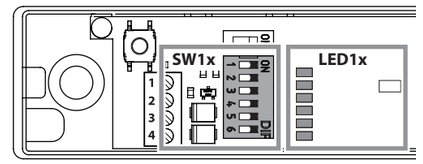
The LEDs of the new wireless input module flash green once first, then light up yellow for one second and then flash red four times. As soon as the LED goes out after that, the connection can be set up.



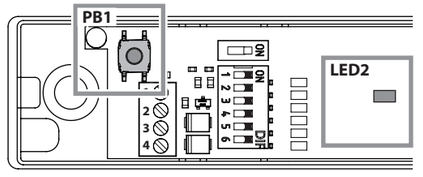
- 8. Now slide the set-up switch on the new wireless input module to the 1 position. After a short time, the LED of the new wireless input module will flash green for a few seconds. The corresponding wireless device LED1x of the wireless module GC 171 lights up green permanently.



- 9. If the LED on the new wireless input module lights up red permanently, no connection has been made. In this case, remove the main battery from the new wireless input module, slide the set-up switch on the new wireless input module back and forward 6 times and start again with step 7.
- 10. Close the housing of the new wireless input module.
- 11. Slide the wireless device switch SW1x of the wireless module GC 171 to the OFF position again. The colour the corresponding wireless device LED1x flashes indicates the quality of the wireless connection (see connection quality). Optimise the quality of the wireless connection if necessary by changing the position of the wireless detector.



- 12. The connection of the wireless module GC 171 to the new wireless input module has been set up. Note the set-up connection (the number of the assigned wireless device switch) onto the identification plate of the new wireless input module. To set up further wireless connections, continue with step 6.
- 13. Press the PB1 push button on the wireless module GC 171 briefly to change to the “operating” mode. The status LED2 of the wireless module GC 171 goes off.



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