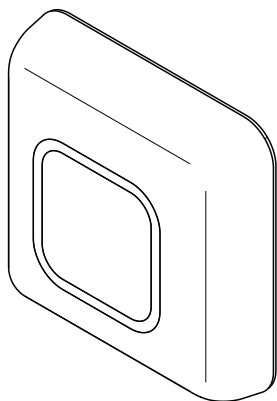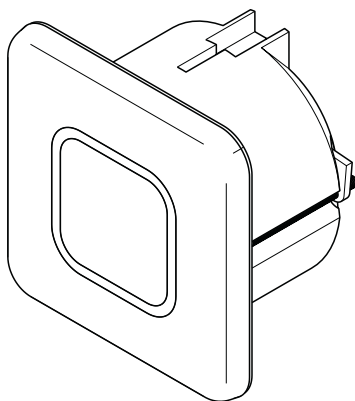# GC 307+

198725-01

GEZE

195727 (Hand-Icon)
195751 (WC-Icon)
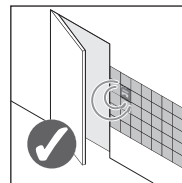
193226 (Hand-Icon)
195750 (WC-Icon)

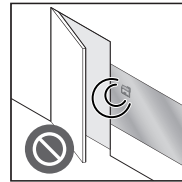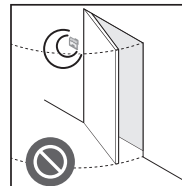Translation of the original instructions for device version 0200

Intended use

The movement detector GC 307+ may only be used to activate automatic sliding, curved sliding, folding, swing or revolving doors with GEZE drives.
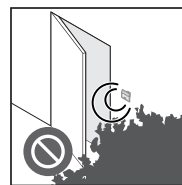

The GC 307+ can be installed behind tiles, wood, plaster, plastic and glass.

Do not install the GC 307+ behind metallic surfaces.

Do not install the GC 307+ in the swivelling range of doors.

Avoid moving objects near the GC 307+.

Technology	Radar movement detector
Frequency	24,150 GHz
Power flux density	< 5 mW/cm^2
Radiated power	< 20 dBm EIRP
Detection range (hand)	±10 … 60 cm (movement towards sensor, angle 90°), adjustable*
Type of detection	Movement (independent of direction)
Speed of objects for detection	Min. 5 Hz or ±3 cm/s, Max. 200 Hz or ±1.2 m/s
Power supply **	12–24 V AC ±10 % 12–24 V DC +30 %/–10 %
Mains frequency	50 … 60 Hz
Power consumption	< 1.5 W
Output	Changeover relay (potential-free contact)
□ Max. contact voltage	42 V AC/DC
□ Max. switching current	100 mA
Holding time	0.5 s (in PULSE mode)
Temperature range	–20 °C … +55 °C
Protection class	IP 65 (if front and seal are installed on a smooth surface)
Material	PC
Colour	White
Recommended cable	Braided cable up to 16 AWG – 1.5 mm^2

*   Adjustment of the detection field < 10 cm is possible, but the detection capacity of the sensor can then no longer be guaranteed.

** The unit must be supplied by an approved SELV-limited current source of Class II. This requirement is the need for double insulation between primary voltages and the unit supply. The power supply should be limited to 1.5 A.
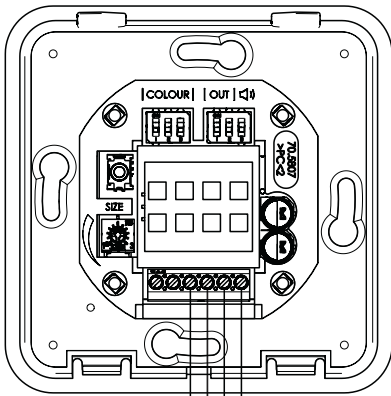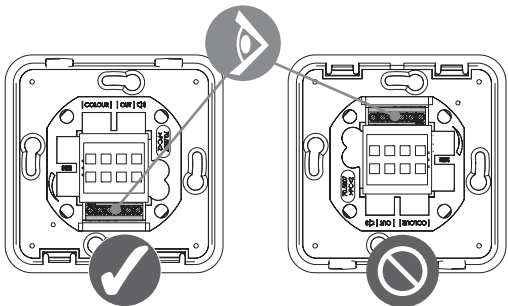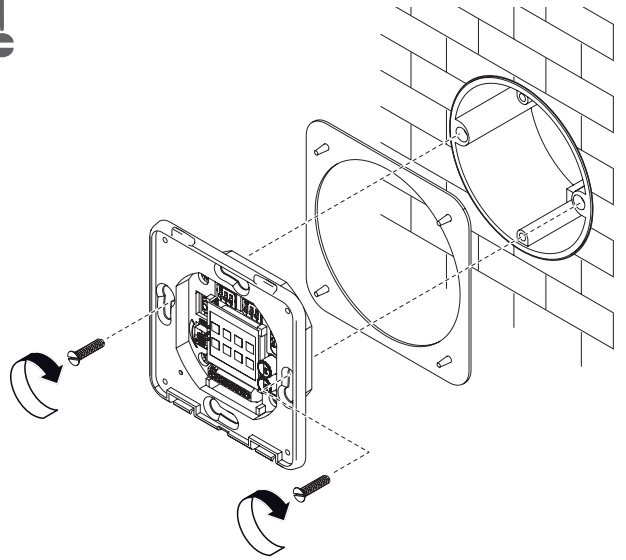
1

70 mm

50 mm
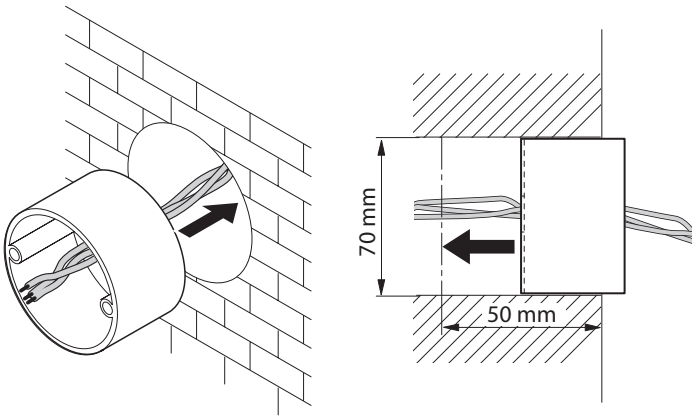
2

Follow the instructions for the drive.

Set the type of contact for KI and KA to "normally open contact".

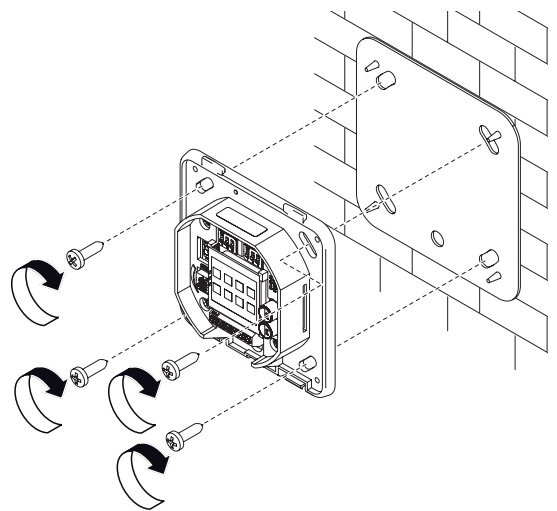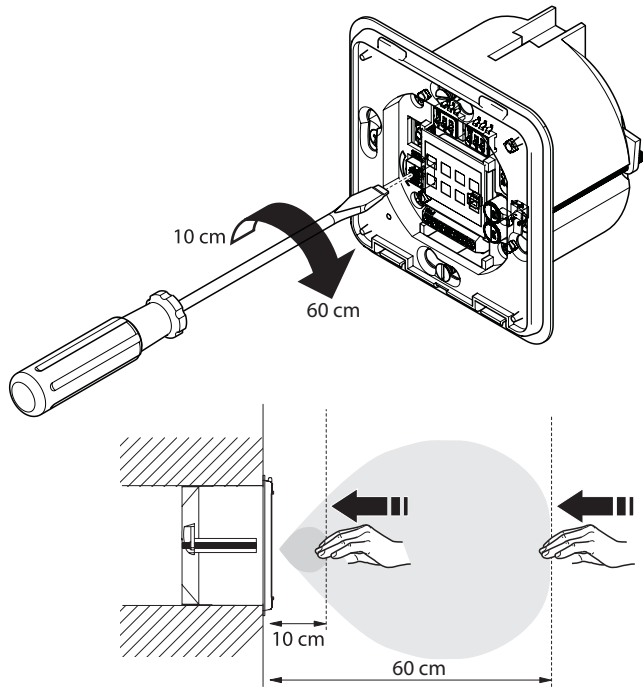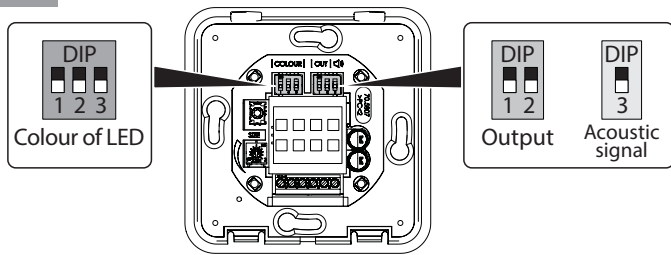| 1	GND
4	24V
23	KA

i

3a

3b

4

Range
- Adjust according to requirement.
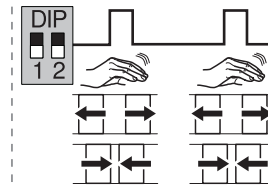- Depends on the direction of movement, size and material/type of object to be detected.

10 cm
60 cm

10 cm
60 cm

5

DIP
1 2 3
Colour of LED

DIP
1 2
Output

DIP
3
Acoustic signal

Colour of LED

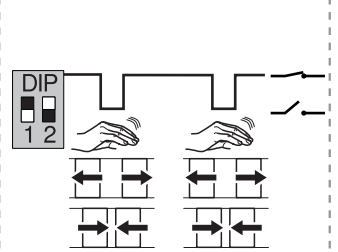|	No detection		Detection
DIP 1 2 3	Off		Blue
DIP 1 2 3	Blue		Off
DIP 1 2 3	Blue		Green
DIP 1 2 3	Off		Green
DIP 1 2 3	Green		Off
DIP 1 2 3	Off		Off
DIP 1 2 3	Green		Red
DIP 1 2 3	Red		Green

6

Output modus

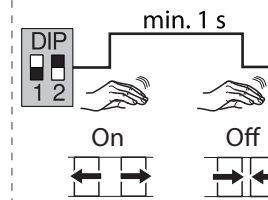Pulse mode (NO)
Recommended for automatic door drives

DIP 1 2

Pulse mode (NC)

DIP 1 2

Toggle mode (NO)
Recommended for switching applications

min. 1 s

DIP 1 2

On   Off

Toggle mode (NC)

min. 1 s

DIP 1 2

On   Off
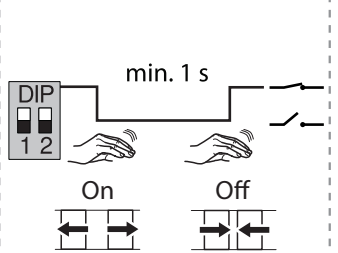
Control INPUT
Is activated via an external contact. When the contact is closed, the switching behaviour changes (refer also to section "Door control") and the LED display lights up red.
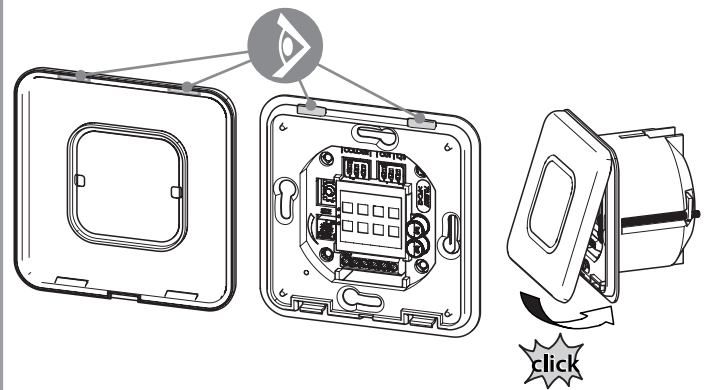
Input

LED according to DIP switch settings

⚠ The input signal must be a potential-free contact (no voltage).

Acoustic feedback

DIP 3   DIP 3

7

click

8

1

2

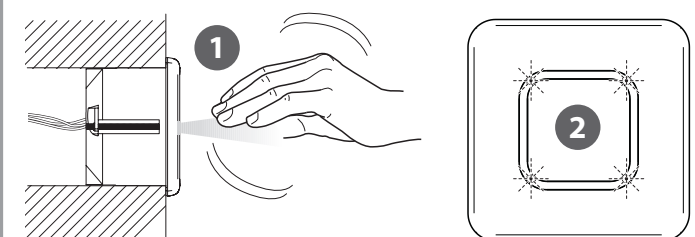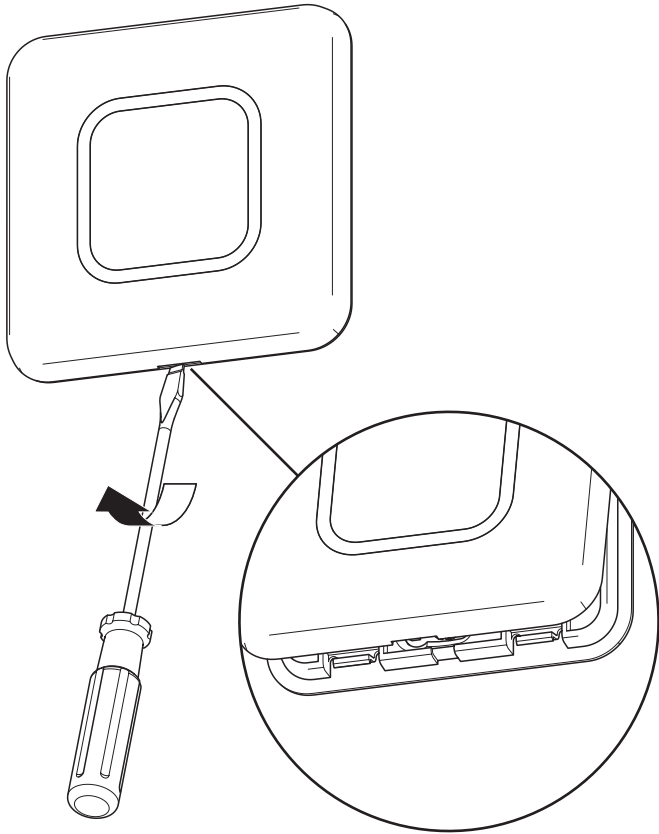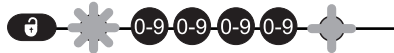## Open the GC 307+

Set using the remote control

Operation

After unlocking,
the red LED flashes and the
sensor is accessible.

If the red LED flashes quickly after unlocking:
▶ Enter the access code.
If the access code is not known:
▶ Turn the power supply off and on again.
After switch-on the sensor can be unlocked
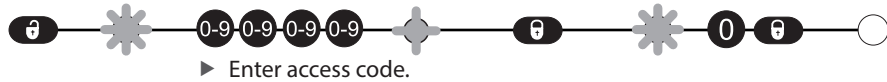within 1 minute without the access code being
entered.

▶ Lock the sensor again at the end of the
settings.

Saving the access code

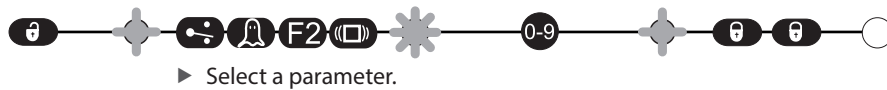The access code (1 to 4 digits) is recommended for sensors which are close together.

Deleting the access code

▶ Enter access code.

Setting one or more parameters

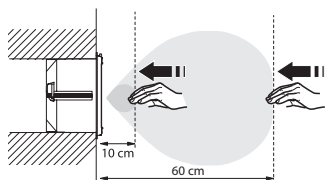▶ Select a parameter.

Resetting to factory settings

Full reset

Range

Range

To change these settings by remote control, the range must be set to minimum.
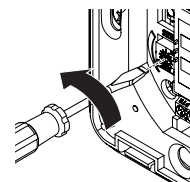
	0	1	2	3	4	5	6	7	8	9
	small	>	>	>	>	>	>	>	>	large

Output

Output configuration

	0	1	2	3	4	5
	Pulse NO	Toggle NO	Pulse NC	Toggle NC	Pulse frequency	Toggle frequency

DIP 1 2

To change these settings by remote control, the DIP switches "Output" must be set to OFF.
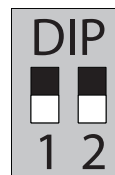
Holding time

If the "output configuration" is set to Pulse (0, 2 or 4), the hold-open time can be adapted here.

	0	1	2	3	4	5
	0.5 s	1 s	2 s	3 s	4 s	5 s

Aut. reset

If the "output configuration" is set to Toggle (1, 3 or 5), it can be determined here when the system unlocks automatically.

	0	1	2	3	4	5
	No timer	1 min	5 min	15 min	30 min	60 min

5 seconds before the timer expires, the LED flashes and a signal sounds.

Door control

	1	2	3	4
	AUTO	OPEN	CLOSED	RESTROOM

|		
1	AUTO	With the contact closed at the control INPUT, the output OUT switches when a hand moves in front of the sensor.
2	OPEN	With the contact closed at the control INPUT, the output OUT switches permanently.
3	CLOSED	With the contact closed at the control INPUT, the output OUT does not switch.
4	RESTROOM	With the contact closed at the control INPUT, the output OUT switches when a hand moves in front of the sensor optimised for a WC circuit.

LED

Colour of LED

A — Off — No detection
B — Blue — Detection

To change these settings by remote control, the DIP switches "Colour of LED" must be set to OFF.

DIP 1 2 3
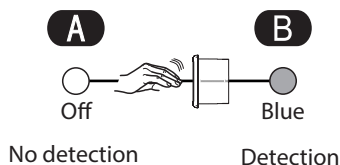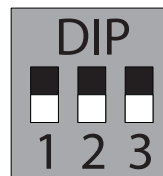
	0	1	2	3	4	5	6	7
		or	or	or	or			
		Red	Green	Blue	Yellow			
A	Off	Red	Green	Blue	Yellow	Pink	Turquoise	White
B	Off	Red	Green	Blue	Yellow	Pink	Turquoise	White

= Factory setting

Example:

🔒 — A — 1
B — 2 — 🔒 🔒

Red — No detection
Green — Detection

LED

Animation

F1 ❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Brightness

D ❶ ❷ ❸
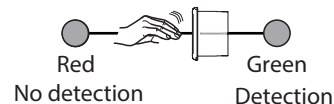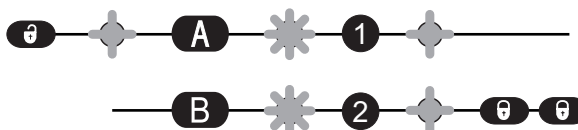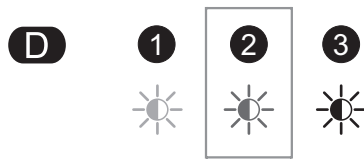
Acoustic feedback

Sound

❶ ❷ ❸

DIP
3
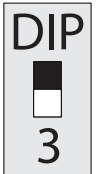
Acoustic signal

To change these settings by remote control, the DIP switch for "Acoustic signal" must be set to OFF.

❶
❷
❸
❹

● short sound
— long sound

External control signal (e.g. function WC control)

Optical and acoustic feedback in the event of external activation:

Colour of LED

❶ ❷ ❸ ❹ ❺ ❻ ❼
or or or or
Red Green Blue Yellow

Red   Red
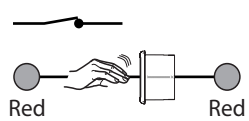
Colour corresponding to the DIP switch "Colour of LED"
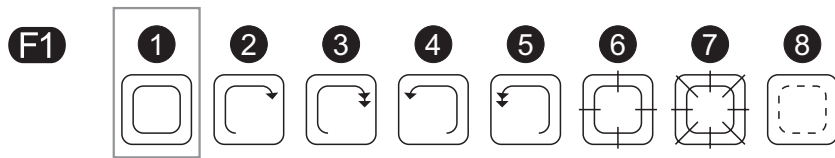
C Off Red Green Blue Yellow Pink Turquoise White

Animation

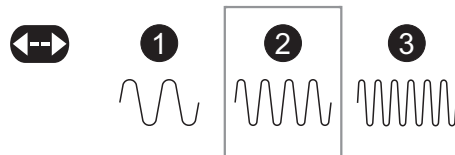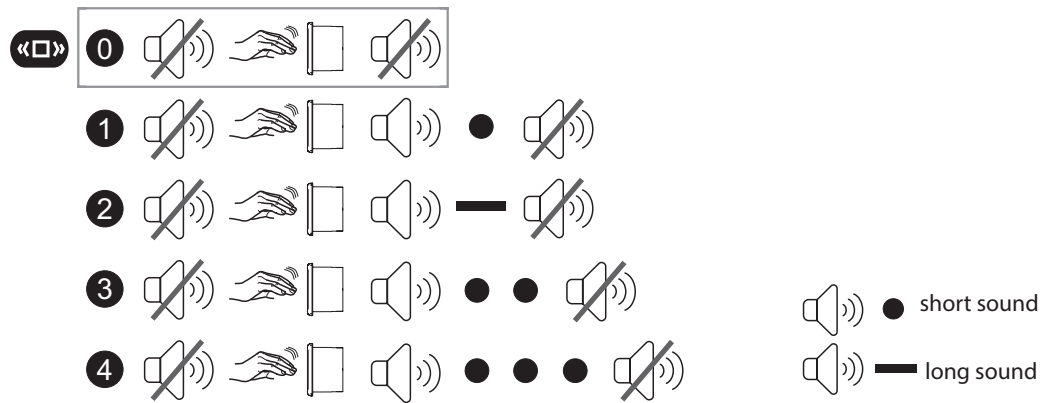**F2** ❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

= Factory setting

Acoustic signal

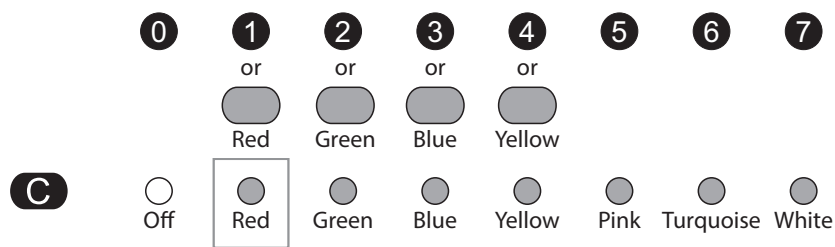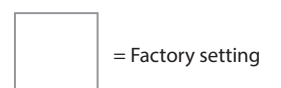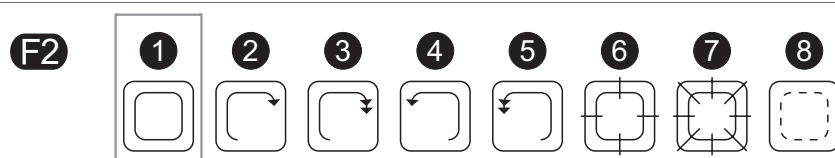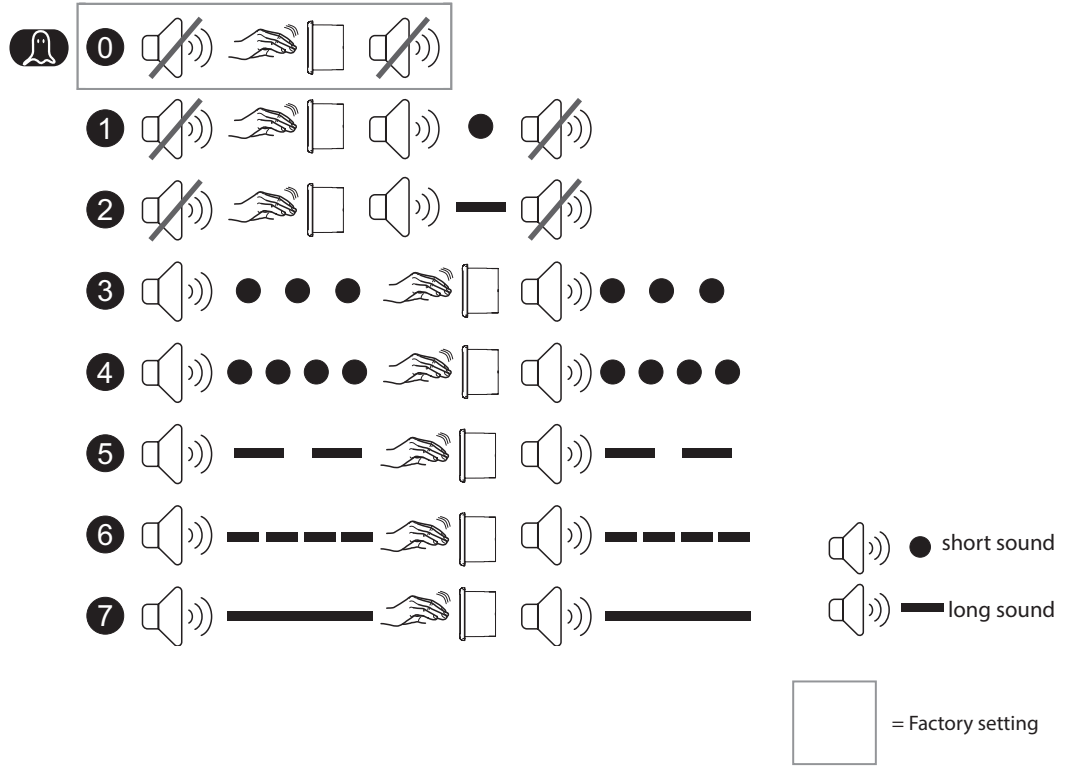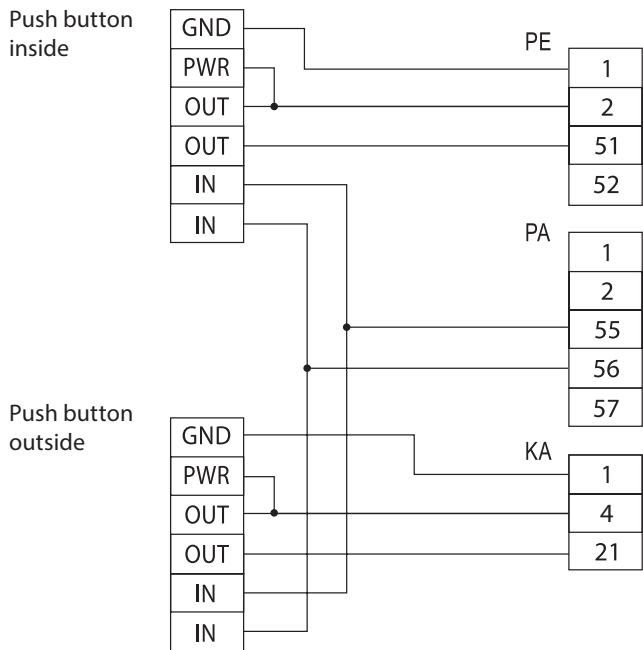|						
0	🔇	✋🚪	🔇			
1	🔇	✋🚪	🔊	●	🔇	
2	🔇	✋🚪	🔊	▬	🔇	
3	🔊	● ● ●	✋🚪	🔊	● ● ●	
4	🔊	● ● ● ●	✋🚪	🔊	● ● ● ●	
5	🔊	▬ ▬ ▬	✋🚪	🔊	▬ ▬ ▬	
6	🔊	▬▬ ▬▬ ▬▬	✋🚪	🔊	▬▬ ▬▬ ▬▬	
7	🔊	▬▬▬▬▬	✋🚪	🔊	▬▬▬▬▬	

🔊 ● short sound

🔊 ▬ long sound

☐ = Factory setting

WC control with KB emergency opening

Push button inside

GND		PE	
PWR		1	
OUT		2	
OUT		51	
IN		52	
IN			

	PA	
	1	
	2	
	55	
	56	
	57	

Push button outside

GND		KA	
PWR		1	
OUT		4	
OUT		21	
IN			
IN			

□ Set "PE1" or "PE2" to WC control.
□ Set "PA1" or "PA2" to exit only function.
  Set "PA1" or "PA2" to alarm WC control function.
□ Set "Hold-open times, 1-leaf opening" to the desired time (0-60 s).
□ GC 307+ inside and outside*: Door control to 1 (Auto)

Note:
The door can be unlocked at any time via KB.

After 30 minutes, an external warning signal (acoustic or optical) is triggered.

*Only possible via the remote control (100061)

WC control with adjustable unlocking time

Push button outside

GND		1
PWR		2
OUT		23
OUT		
IN		
IN		

Push button inside

GND
PWR
OUT
OUT
IN
IN

□ GC 307+ inside*: Output mode to 1 (Toggle NO)
□ GC 307+ outside*: Door control to 4 (Restroom)

Note:
The door also unlocks automatically after the set "Aut. reset" time has elapsed.

Troubleshooting

Fault	LED	Possible causes	Elimination
The door does not open.	LED is not lit	Faulty or no power supply.	▶ Check the power supply.
	LED is not lit	Range is too small.	▶ Adjust range. ▶ Remove metallic objects in front of the sensor.
	LED is lit	Wired wrong.	▶ Check wiring and relay connection.
The door remains open.	LED is lit	The environment is influencing the functional ability of the sensor.	▶ Remove moving objects from near the sensor.
	LED is not lit	Wired wrong.	▶ Check wiring and relay connection.
The door remains open after detection/activation.	LED is lit	Wrong output mode.	▶ Switch the output mode to pulse mode.
	LED is not lit	Wired wrong.	▶ Check wiring and relay connection.

LED is lit

LED is not lit

Only for EU countries: In compliance with the European guideline 2012/19/EU concerning waste electrical and electronic equipment (WEEE)