

GC 308 R

EN Installation instructions

203846-01

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Product liability

In compliance with the liability of the manufacturer for his products as defined in the German "Product Liability Act", compliance with the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) must be ensured. Failure to comply releases the manufacturer from his statutory liability.

1 Safety

1.1 Intended use

The movement detector GC 308 R may only be used for the activation of automatic sliding, curved sliding, folding, swing or revolving doors with GEZE drives.

					
GC 308 R	 (in the direction of emergency exit)				

1.2 Safety notes

- The prescribed mounting, maintenance and repair work must be performed by personnel authorised by GEZE. Any attempts at repairs by unauthorised personnel cancel the factory guarantee.
- The device may only be operated with safety extra-low voltage (SELV) with electrically protective separation.
- The country-specific laws and regulations are to be observed during safety-related tests.
- If unauthorised changes are made to the system, GEZE cannot be held liable in any way whatsoever for any resulting damage, and the statement of approval for use in escape and rescue routes is no longer valid.
- GEZE does not accept any warranty for combinations with third-party products.
- Only original GEZE parts may be used for repair and maintenance work.
- Observe the latest versions of guidelines, standards and country-specific regulations, in particular:

- ASR A1.7 "Doors and gates"
- DIN 18650 "Building hardware – Powered pedestrian doors"
- DIN EN 16005 "Power operated pedestrian doorsets – Safety in use – Requirements and test methods"
- Accident-prevention regulations, especially BGV A1 "General regulations" and BGV A2 "Electrical installations and equipment".
- The risk assessment and installation of the sensor and the door system in compliance with national and international regulations and door safety standards are the responsibility of the door manufacturer.
- Any uses of the device other than those described in this manual do not correspond to the approved purpose and cannot be guaranteed by the manufacturer.

1.3 Safety-conscious working

- Secure workplace against unauthorised entry.
- Watch the swivelling range of long system parts.
- Secure the cover/drive panels against falling.
- Attach safety stickers to glass leaves.
- Danger of injury with opened drive. Hair, clothing, cables, etc. can be drawn in by rotating parts.
- Danger of injury caused by unsecured crushing, impact, drawing-in or shearing spots.
- Danger of injury due to glass breakage.
- Danger of injury due to sharp edges in the drive.
- Danger of injury during installation through freely moving parts.

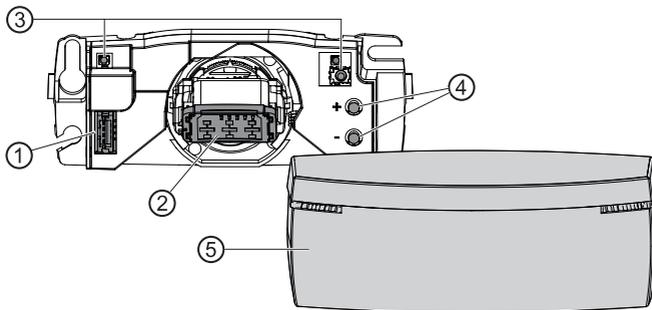
1.4 Environmentally conscious working

- When disposing of the door system, separate the different materials and have them recycled.

2 Description

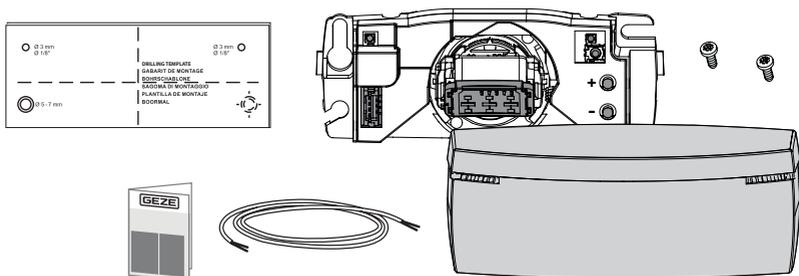
The GC 308 R radar sensor has been designed for use as an opening pulse generator on automatic doors. Due to the Doppler effect, the sensor detects movements, whereby a distinction is made between approach and distance to the detector. It is not possible for several sensor systems to influence each other and result in a hazard.

Material number GC 308 R, black: 203603
 GC 308 R, white: 203604
 GC 308 R, stainless steel: 203605
 GC 308 R, according to RAL: 203606



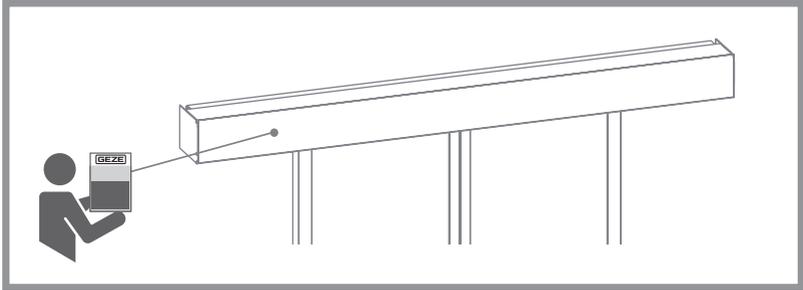
- | | | | |
|---|---------------------|---|--------------|
| 1 | Connection terminal | 4 | Push buttons |
| 2 | Radar antenna | 5 | Cover |
| 3 | LEDs | | |

2.1 Scope of delivery



3 Work to be done before installation

3.1 Installing the drive

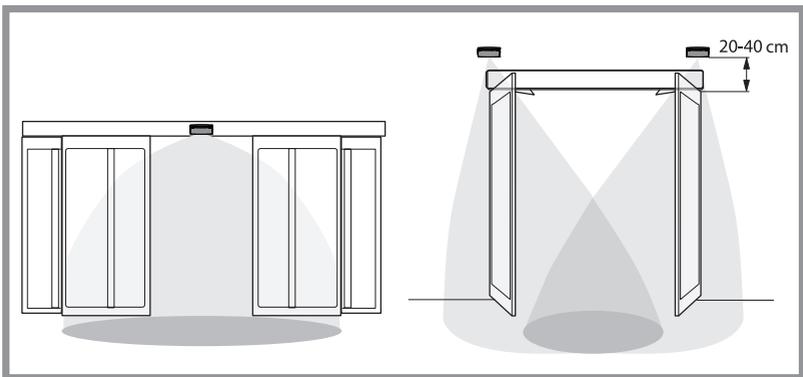


- ▶ Make sure that the cover of the drive is fitted correctly and earthed.

3.2 Positioning the sensor

The GC 308 R is used as an activation sensor for automatic doors.

- The sensor must be mounted above the door in the case of sliding, curved sliding, folding and revolving doors. Ideally, the flows of people walk directly towards the sensor. If the scanning area does not cover the entire opening width or if flows of people from different directions are to be expected, several GC 308 R can be used.
- In the case of swing doors the sensor must be mounted on the hinge side above the swivelling axis.



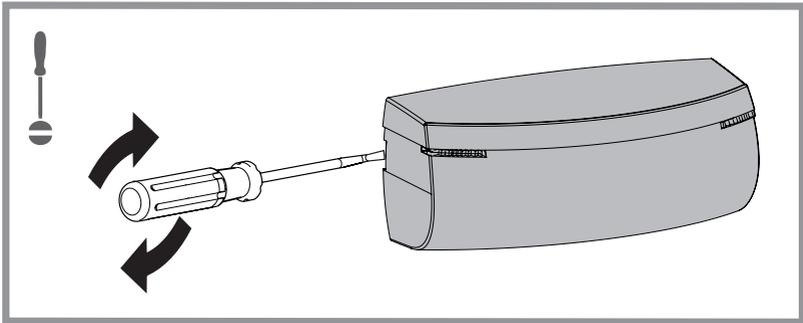
4 Installation



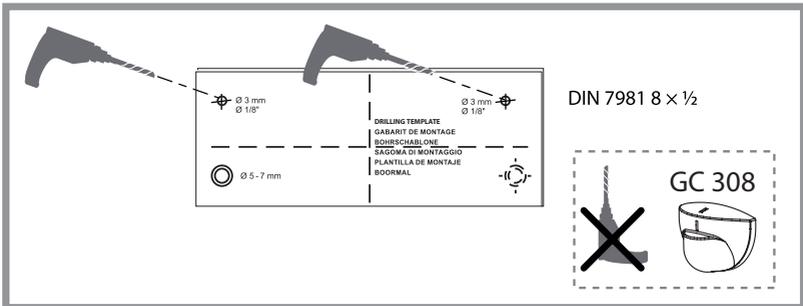
- ▶ Avoid extreme vibrations.
- ▶ Do not cover the sensor.
- ▶ Keep away from fluorescent lamps.
- ▶ Keep away from moving objects.

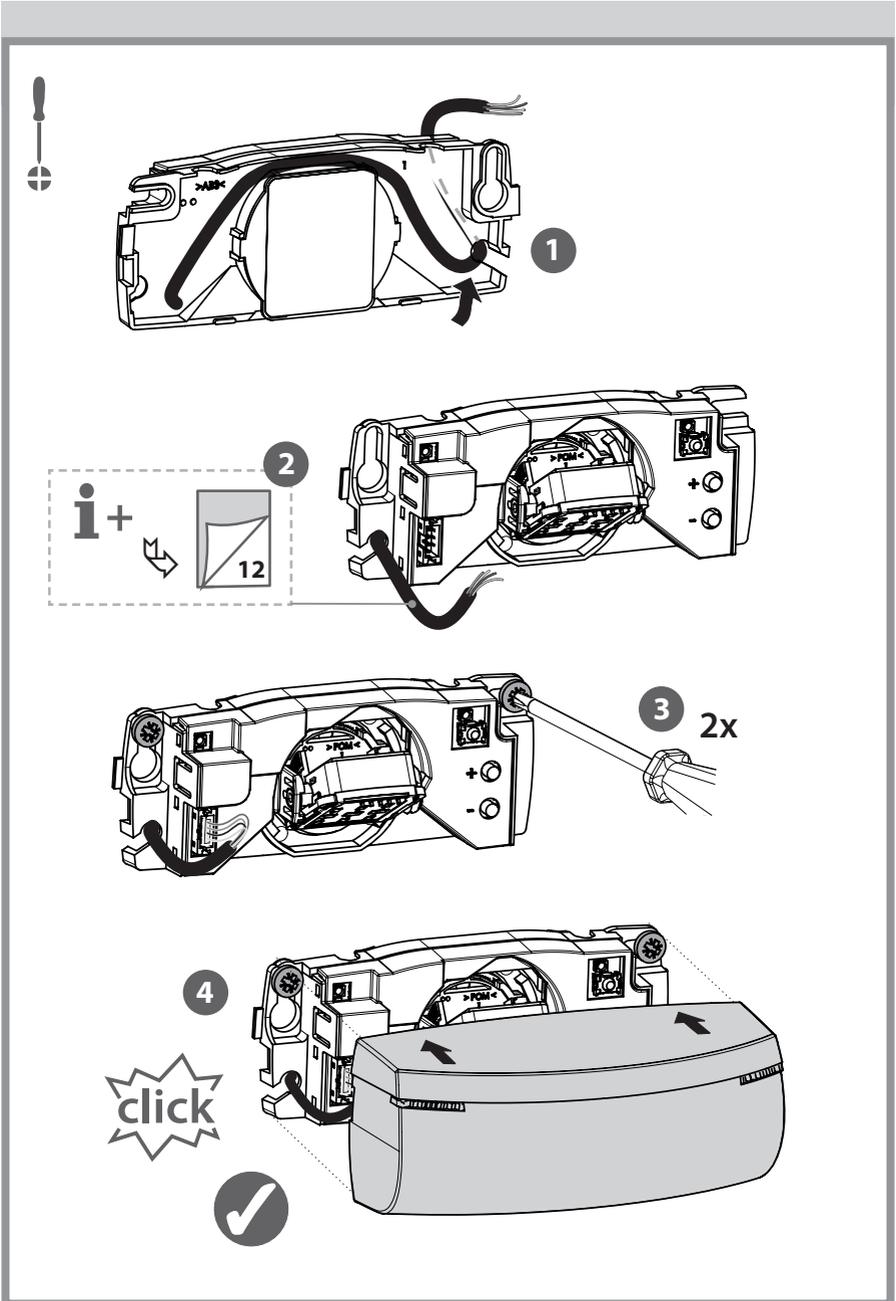
4.1 Installation without accessories

- ▶ Remove the rear panel.

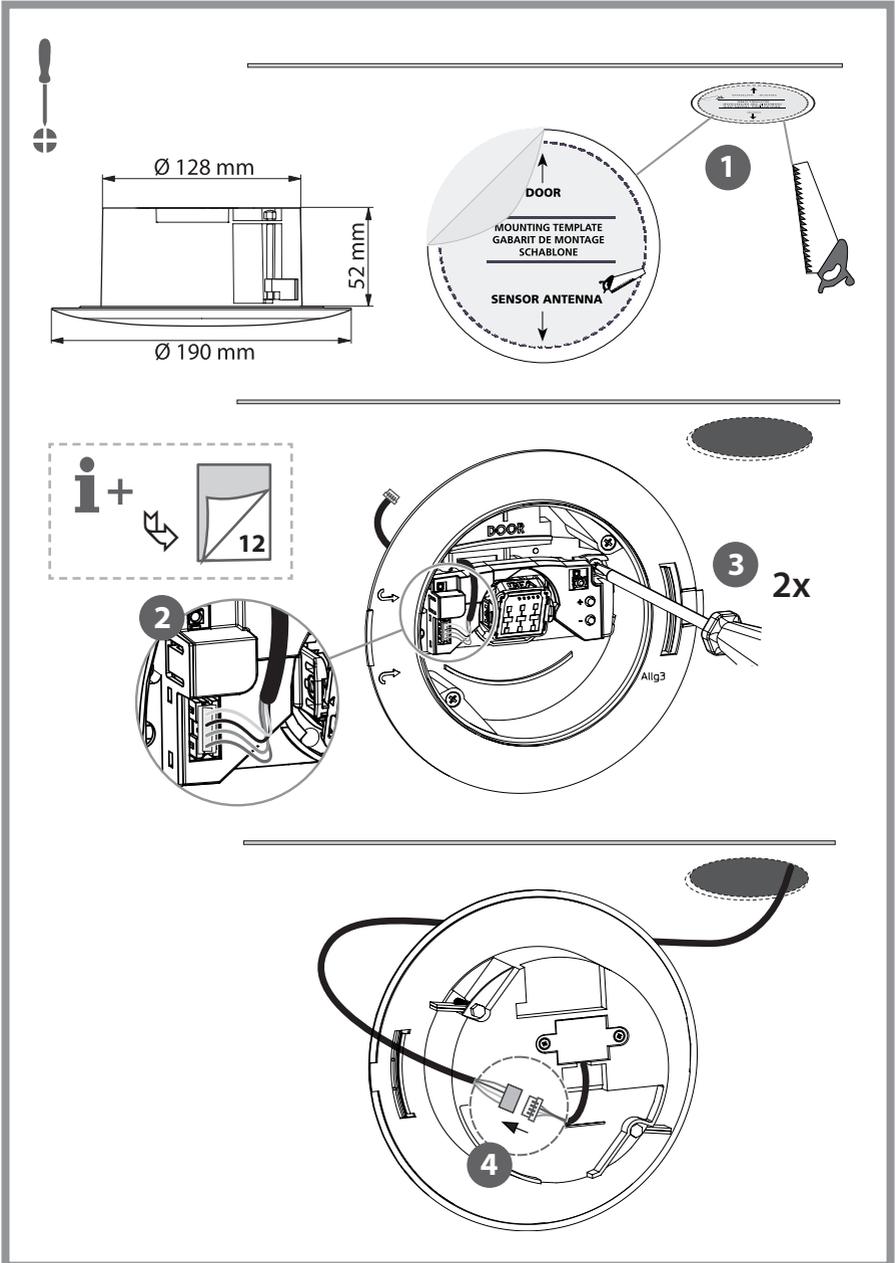


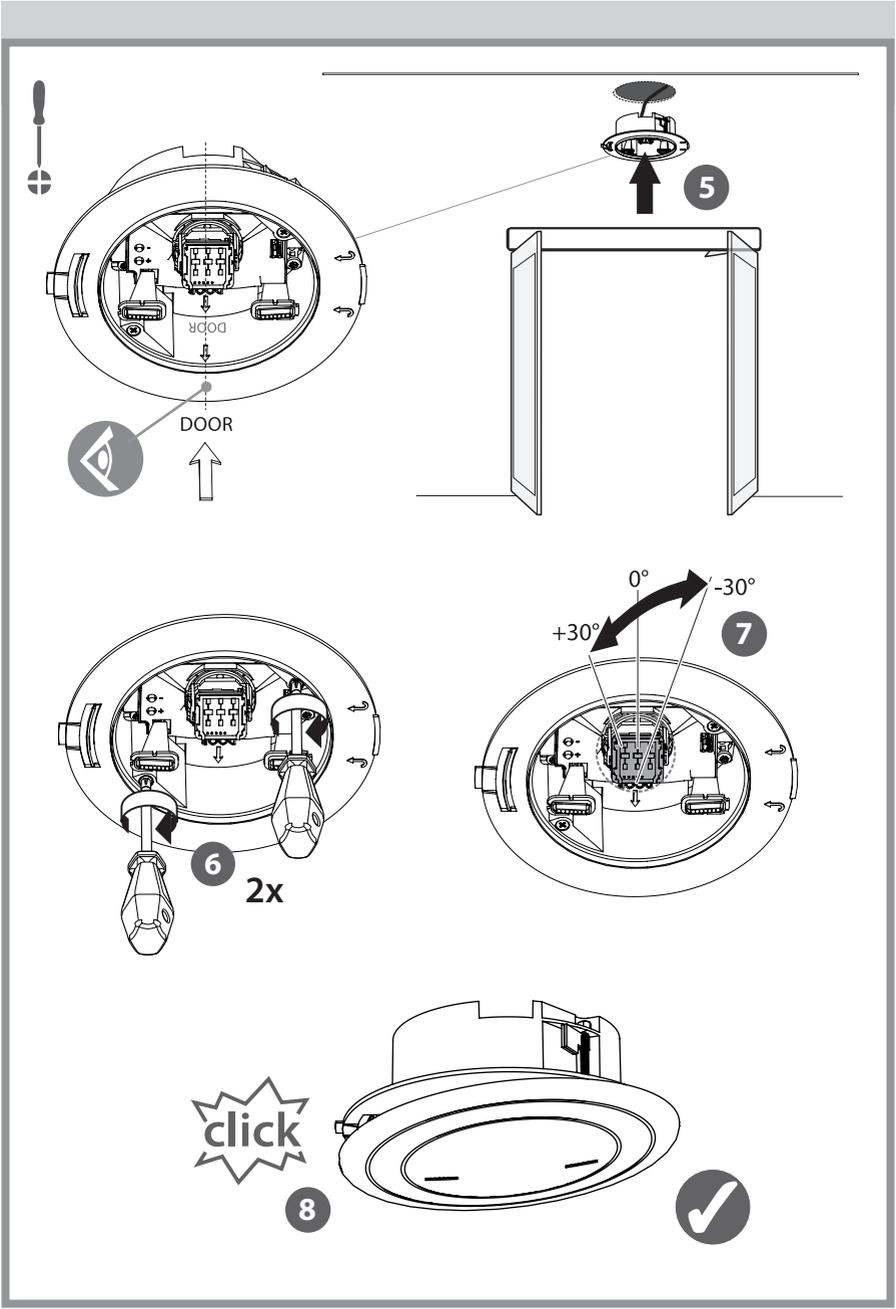
- ▶ Glue the sensor drilling template in place, drill holes for cables and screws.



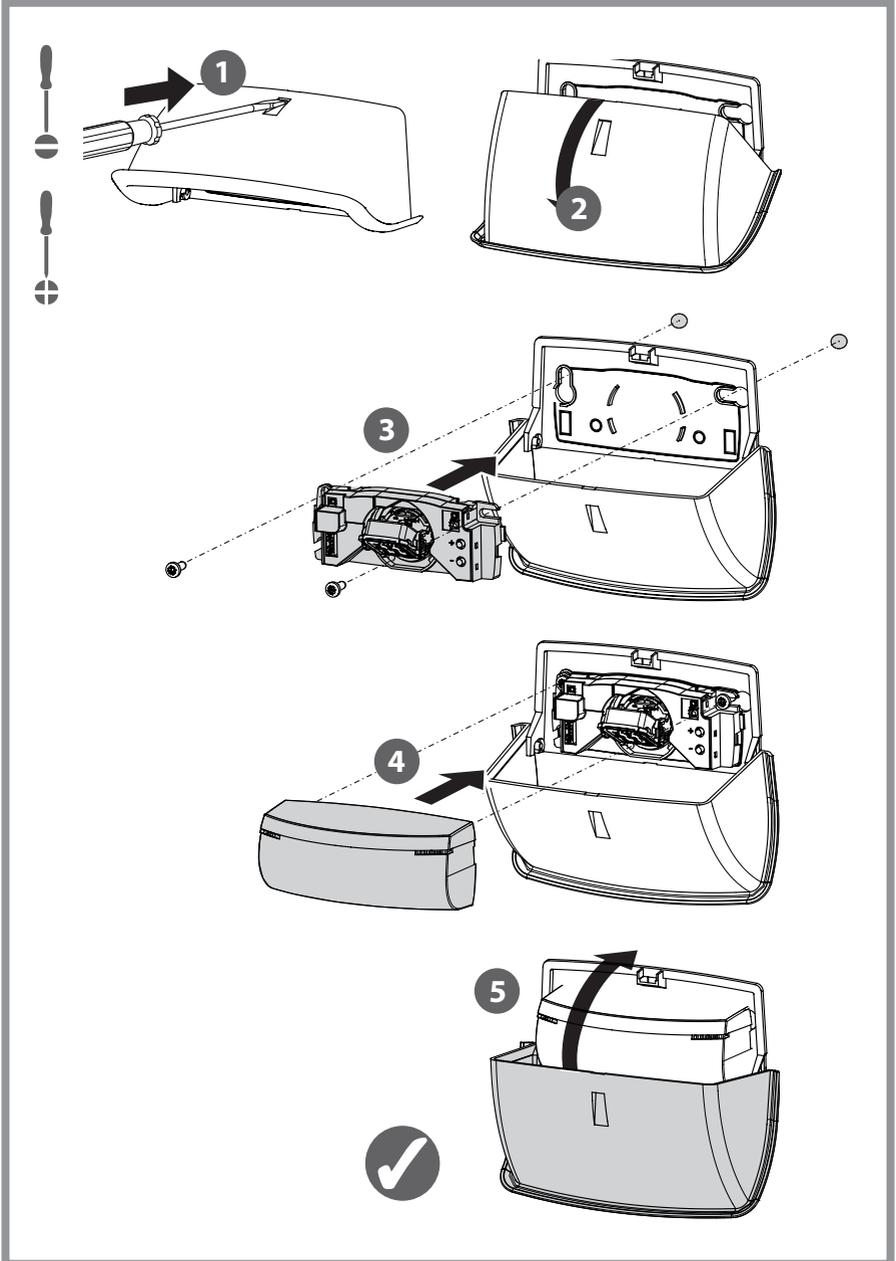


4.2 Installation with ceiling installation kit





4.3 Installation with rain cover

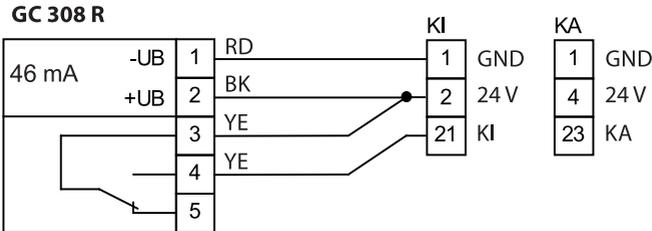


4.4 Cabling

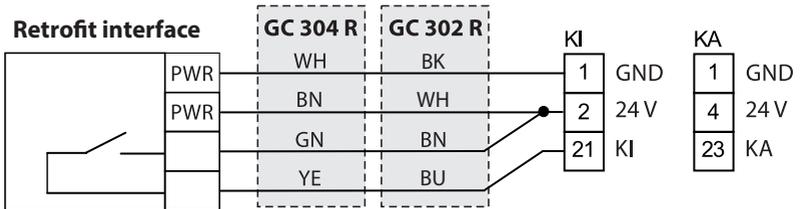
- Note the wiring diagrams for the drives.

On activation, the output of the GC 308 R is closed (24 V applied to the Kx input).

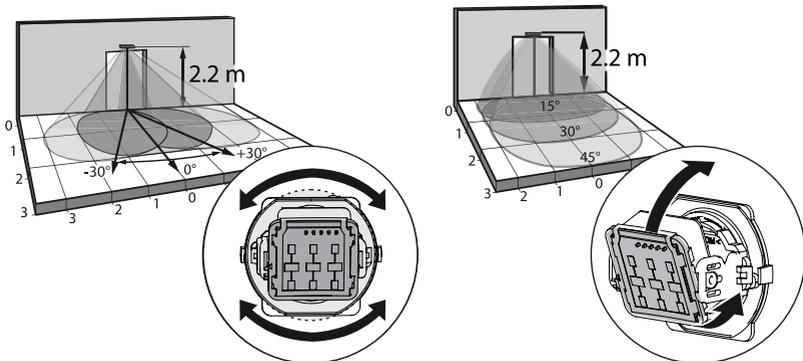
- Set the type of contact for KI and KA to “normally open contact”.



4.4.1 Retrofit interface



5 Commissioning



6 Settings

► Use the remote control and/or push button to configure the sensor.

Select one of the following presets:

Standard:

Standard inside and outside installations

Difficult environments:

Difficult installations due to environment or weather

Optimised cross-traffic fade-out:

Installation where there is a lot of cross traffic (e.g. shopping streets)



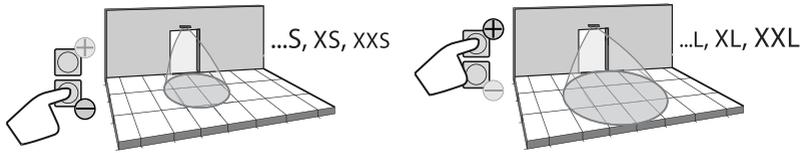
Preset		Standard	Diff. envir.	Opt. cross tr.							
Field size		XXS	XS	S	>	>	>	>	L	XL	XXL
Area shape										narrow	wide
Installation height		< 3 m	> 3 m								
Immunity filter		low	normal	high	>	>	>	>	>	high-est	
Detection mode		bi	uni	uni EM	uni WEG	EM & WEG	bi: no direction detection, uni: direction detection towards the sensor, uni EM: direction detection even in the case of persons with limited mobility, uni WEG: direction detection away from the sensor				
Output config.		Normally open contact	Normally closed contact								
Hold time		0.5 sec	1 sec	2 sec	3 sec	4 sec	5 sec	6 sec	7 sec	8 sec	9 sec
Door controller		auto	open	closed	open: the sensor detects without interruption, the LED is on. closed: the sensor is waiting and not detecting, the LED is off.						

Factory setting

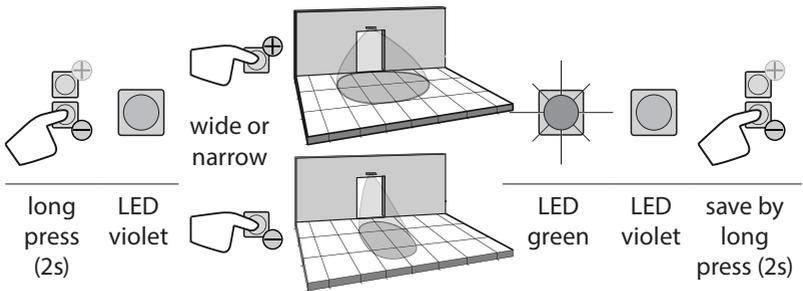
6.1 Resetting to factory settings



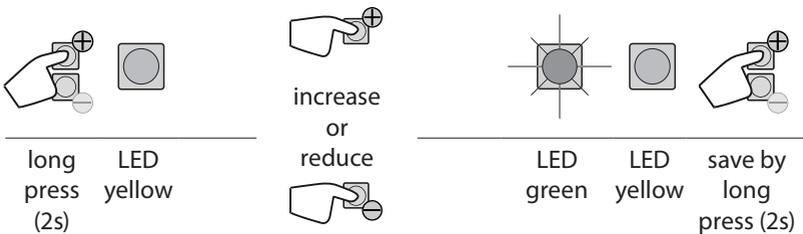
6.2 Setting area size



6.3 Changing area shape



6.4 Changing immunity



6.5 Access code

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

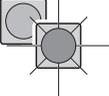
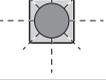
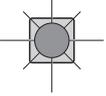
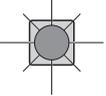
To save the access code

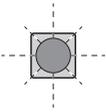
To delete the access code

After the access code has been saved, this code must always be entered to unlock the sensor.

If you have forgotten the access code: Switch the power supply off and on. After switch-on you have 1 minute to unlock the sensor without entering the access code.

7 Fault messages and troubleshooting

Display	Effect	Cause	Elimination
LED grey 	The door remains closed. The LED is off.	The power supply is off. The door controller parameter (F2) is set to value 3 (closed).	<ul style="list-style-type: none"> ▶ Check cabling and voltage of the power supply. ▶ Set the door controller parameter (F2) to value 1 (automatic).
LED grey - LED blue 	The door does not react as expected.	Incorrect output configurations selected at the sensor.	<ul style="list-style-type: none"> ▶ Check the output configuration of all sensors connected to the door controller.
LED orange 3x flash 	The door does not react as expected.	The cable to the antenna is disconnected or damaged.	<ul style="list-style-type: none"> ▶ Check whether the cable to the antenna is crushed or cut. ▶ Replace the sensor
LED blue 	The door opens and closes in cycles.	The sensor sees the door movement or is disturbed by vibrations.	<ul style="list-style-type: none"> ▶ Check whether the sensor has been fixed in place correctly. ▶ Check whether uni mode has been selected. ▶ Increase the angle of inclination. ▶ Increase the immunity filter. ▶ Reduce the area size.
LED blue 	The door opens for no apparent reason.	It is raining and the sensor detects the movement of the rain drops. In metallic environments the sensor detects objects that are not in the detection area. In interlocking door systems the sensor detects the movement of the opposite door.	<ul style="list-style-type: none"> ▶ Check whether uni mode has been selected. ▶ Increase the immunity filter. ▶ Install a rain cap. ▶ Change the antenna angle. ▶ Reduce the area size. ▶ Increase the immunity filter. ▶ Change the antenna angle. ▶ Increase the immunity filter.

Display	Effect	Cause	Elimination
<p>LED red</p> 	<p>The LED flashes quickly following unlocking.</p>	<p>The sensor requires an access code for unlocking.</p>	<ul style="list-style-type: none"> ▶ Enter the access code. ▶ Forgotten the access code? Switch the power supply off and on to unlock the sensor.
	<p>The sensor does not react to the remote control.</p>	<p>The batteries are not sufficiently charged or not inserted correctly.</p>	<ul style="list-style-type: none"> ▶ Check and/or replace the batteries.
		<p>The remote control is not aligned to the sensor.</p>	<ul style="list-style-type: none"> ▶ Align the remote control to the sensor.

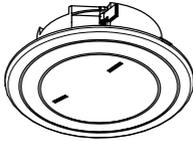
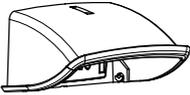
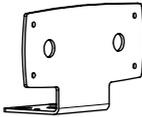
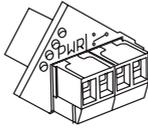
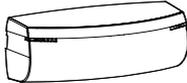
8 Technical data

Technology	Microwaves
Transmission frequency	24.150 GHz
Transmission power	< 20 dBm EIRP
Density of transmission power	< 5 mW/cm ²
Detection mode	Movement
Min. detection speed	5 cm/s
Power supply	12 V to 24 V AC ± 10 %; 12 V to 24 V DC +30 % / -10 %
Mains frequency	50 Hz to 60 Hz
Power consumption	< 1 W
Output	Semiconductor relay (polarity-free)
▫ Max. switching voltage	30V AC / 42V DC
▫ Max. switching current	100 mA
Installation height	from 1.8 m to 4 m
Protection class	IP54
Temperature range	-20 °C to +55 °C
Dimensions	120 mm x 50 mm x 50 mm (W x H x D)
Angle of inclination	0° to 90° vertical -30° to +30° at the side
Material	ABS
Weight	120 g
Cable length	2.5 m
Conformity to standards	RED Directive 2014/53/EU, RoHS 2 2011/65/EU



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

9 Accessories / spare parts

		Material no.
Remote control		100061
Ceiling installation kit		203607 (black) 203608 (white)
Weather hood		203610 (black)
Installation bracket		203609
Retrofit interface		203627
Replacement hoods		203622 (black) 203623 (white) 203624 (stainless steel) 203631 (in accordance with RAL)
Replacement cable	not shown	203625 (2.5 m) 203626 (5 m)

Germany

GEZE GmbH
 Niederlassung Süd-West
 Tel. +49 (0) 7152 203 594
 E-Mail: leonberg.de@geze.com

GEZE GmbH
 Niederlassung Süd-Ost
 Tel. +49 (0) 7152 203 6440
 E-Mail: muenchen.de@geze.com

GEZE GmbH
 Niederlassung Ost
 Tel. +49 (0) 7152 203 6840
 E-Mail: berlin.de@geze.com

GEZE GmbH
 Niederlassung Mitte/Luxemburg
 Tel. +49 (0) 7152 203 6888
 E-Mail: frankfurt.de@geze.com

GEZE GmbH
 Niederlassung West
 Tel. +49 (0) 7152 203 6770
 E-Mail: duesseldorf.de@geze.com

GEZE GmbH
 Niederlassung Nord
 Tel. +49 (0) 7152 203 6600
 E-Mail: hamburg.de@geze.com

GEZE Service GmbH
 Tel. +49 (0) 1802 923392
 E-Mail: service-info.de@geze.com

Austria

GEZE Austria
 E-Mail: austria.at@geze.com
 www.geze.at

Baltic States –
 Lithuania / Latvia / Estonia
 E-Mail: baltic-states@geze.com

Benelux

GEZE Benelux B.V.
 E-Mail: benelux.nl@geze.com
 www.geze.be
 www.geze.nl

Bulgaria

GEZE Bulgaria - Trade
 E-Mail: office-bulgaria@geze.com
 www.geze.bg

China

GEZE Industries (Tianjin) Co., Ltd.
 E-Mail: chinasales@geze.com.cn
 www.geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
 Branch Office Shanghai
 E-Mail: chinasales@geze.com.cn
 www.geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
 Branch Office Guangzhou
 E-Mail: chinasales@geze.com.cn
 www.geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
 Branch Office Beijing
 E-Mail: chinasales@geze.com.cn
 www.geze.com.cn

France

GEZE France S.A.R.L.
 E-Mail: france.fr@geze.com
 www.geze.fr

Hungary

GEZE Hungary Kft.
 E-Mail: office-hungary@geze.com
 www.geze.hu

Iberia

GEZE Iberia S.R.L.
 E-Mail: info.es@geze.com
 www.geze.es

India

GEZE India Private Ltd.
 E-Mail: office-india@geze.com
 www.geze.in

Italy

GEZE Italia S.r.l.
 E-Mail: italia.it@geze.com
 www.geze.it

GEZE Engineering Roma S.r.l.
 E-Mail: italia.it@geze.com
 www.geze.it

Korea

GEZE Korea Ltd.
 E-Mail: info.kr@geze.com
 www.geze.com

Poland

GEZE Polska Sp.z o.o.
 E-Mail: geze.pl@geze.com
 www.geze.pl

Romania

GEZE Romania S.R.L.
 E-Mail: office-romania@geze.com
 www.geze.ro

Russia

OOO GEZE RUS
 E-Mail: office-russia@geze.com
 www.geze.ru

Scandinavia – Sweden

GEZE Scandinavia AB
 E-Mail: sverige.se@geze.com
 www.geze.se

Scandinavia – Norway

GEZE Scandinavia AB avd. Norge
 E-Mail: norge.se@geze.com
 www.geze.no

Scandinavia – Denmark

GEZE Danmark
 E-Mail: danmark.se@geze.com
 www.geze.dk

Singapore

GEZE (Asia Pacific) Pte, Ltd.
 E-Mail: gezesea@geze.com.sg
 www.geze.com

South Africa

GEZE South Africa (Pty) Ltd.
 E-Mail: info@gezesa.co.za
 www.geze.co.za

Switzerland

GEZE Schweiz AG
 E-Mail: schweiz.ch@geze.com
 www.geze.ch

Turkey

GEZE Kapı ve Pencere Sistemleri
 E-Mail: office-turkey@geze.com
 www.geze.com

Ukraine

LLC GEZE Ukraine
 E-Mail: office-ukraine@geze.com
 www.geze.ua

United Arab Emirates/GCC

GEZE Middle East
 E-Mail: gezeme@geze.com
 www.geze.ae

United Kingdom

GEZE UK Ltd.
 E-Mail: info.uk@geze.com
 www.geze.com

GEZE GmbH

Reinhold-Vöster-Straße 21–29
 71229 Leonberg
 Germany

Tel.: 0049 7152 203 0
 Fax: 0049 7152 203 310
www.geze.com

