

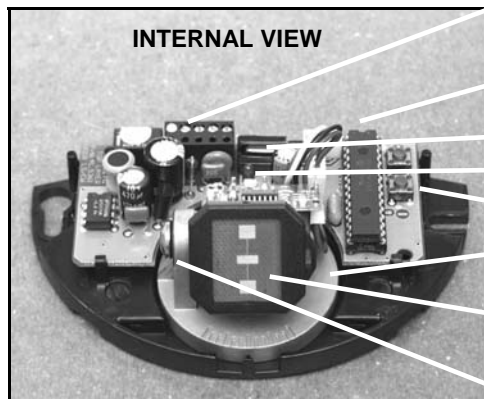
GC 304 R

UNIVERSAL MOTION SENSOR FOR AUTOMATIC DOORS

TECHNICAL SPECIFICATION

<p>Technology : microwave and microprocessor</p> <p>Transmitter frequency : 24.175 GHz</p> <p>Transmitter radiated power : <20 dBm EIRP</p> <p>Transmitter power density : < 5 mW/cm²</p> <p>Mounting height</p> <ul style="list-style-type: none"> • Standard : from 1.8 m to 3 m • High : from 3 m to 4 m <p>Tilt angles : 0° to 90° vertical -30° to + 30° lateral</p> <p>Detection area (mounting height = 2.2 m)</p> <ul style="list-style-type: none"> • Wide sensing field : 4m (W) x 2m (D) • Narrow sensing field : 2m (W) x 2.5m (D) <p>Detection mode : motion</p> <p>Minimum speed : 5 cm/s (measured in the sensor axis)</p> <p>Supply voltage : 12V to 24V AC ±10% 12V to 24V DC +30% / -10%</p> <p>Mains frequency : 50 to 60 Hz</p> <p>Power consumption : < 2W (VA)</p> <p>Output relay (free of potential change-over contact)</p> <ul style="list-style-type: none"> • Max. contact voltage : 42V AC - 60V DC • Max. contact current : 1A (resistive) • Max. switching power : 30W (DC) / 60VA (AC) 	<p>Hold time : 0.5s to 9s (adjustable)</p> <p>Temperature range : -20°C to +55°C</p> <p>Degree of protection : IP54</p> <p>Norm conformity : EMC 2004/108/EEC</p> <p>Dimensions : 120 mm (W) x 80 mm (H) x 50 mm (D)</p> <p>Weight : 0.215 kg</p> <p>Material : ABS</p> <p>Color of housing : anthracite gray, aluminum finish or white</p> <p>Length of cable : 2.5m</p> <p>Manual adjustment</p> <ul style="list-style-type: none"> • Sensitivity (by push buttons) • Orientation of sensing field (mechanically) • Shape of the sensing field (by choice of antenna) <p>Remote control adjustments</p> <ul style="list-style-type: none"> • Sensitivity : 10 levels • Hold time : from 0.5s to 9s in 10 levels • Detection mode : uni-/bidirectional, MTF, reverse mode • Immunity : quasi-presence, normal, increased immunity, additional increased immunities <ul style="list-style-type: none"> • Mounting height : standard, high • Output configuration : active/passive • Door control : automatic, permanently open/closed • Security : 1-4 digit access code
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DESCRIPTION OF THE SENSOR



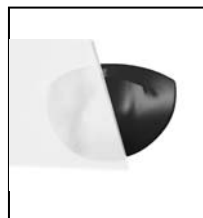
- Terminal block
- Wire opening footprints
- Narrow sensing field antenna
- Infrared receiver
- LED
- Push buttons
- Lateral antenna position adjustment
- Wide sensing field antenna (default)
- Vertical antenna position adjustment



INSTALLATION TIPS



The sensor must be firmly fastened to prevent from vibrating.



The sensor must not be placed directly behind a panel or any kind of material.



The sensor must not have any object likely to move or vibrate in its sensing field.

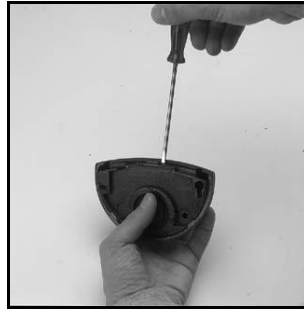


The sensor must not have any fluorescent lighting in its sensing field.

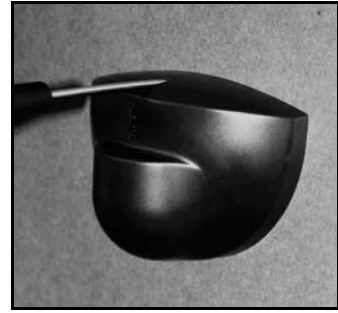


To avoid damage by electrostatic discharges, do not touch any electronic part of the sensor.

OPENING THE SENSOR

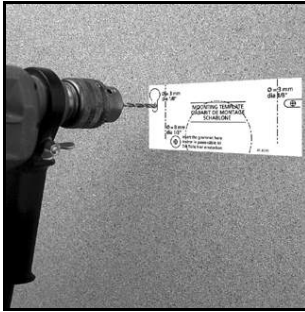


From behind, before installation

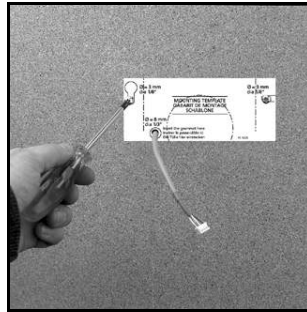


From the front, after installation

PREPARATION FOR MOUNTING THE SENSOR



- Paste the template
- Drill as instructed

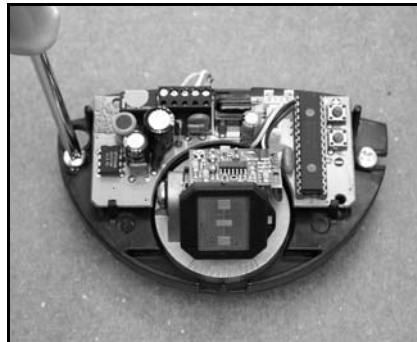


- Insert screws but do not screw them fully home.
- Pass the cable where it is supposed to go through.

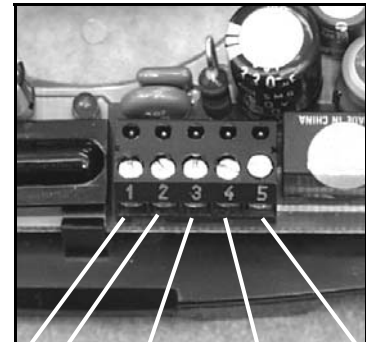


- Cut one of the footprint for the wire.

WIRING AND MOUNTING THE SENSOR

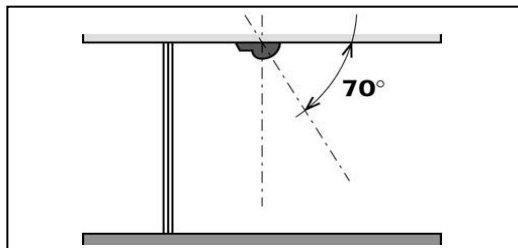


Position the sensor and tighten the two screws. Leave wires long enough to reach the terminal block.

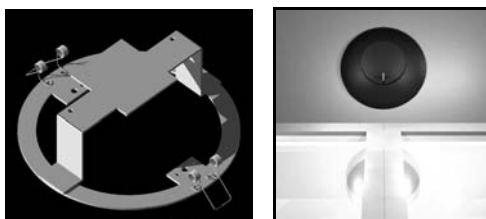


12-24V AC/DC COM NO NC

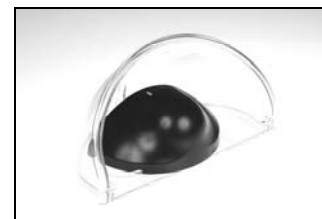
OTHER MOUNTING OPTIONS



This device may be fixed on the ceiling, as long as the spherical part of the sensor is facing in the direction opposite the door, and as long as an angular position of around 70° is chosen for the antenna.

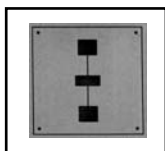


For a mounting into the ceiling, use the ceiling accessory Id. No. 130653.

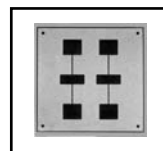


For a better water tightness, use the rain accessory Id. No. 130654.

A. WIDTH OF THE SENSING FIELD DEPENDS ON THE CHOICE OF THE PLANAR ANTENNA



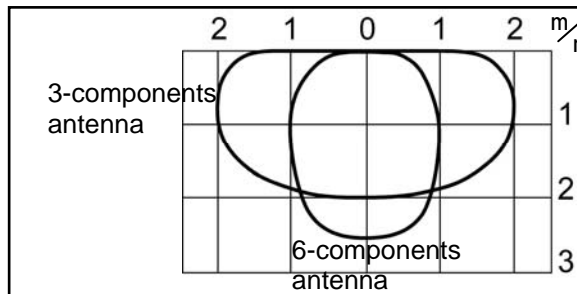
To obtain a wide sensing field, use the 3-components antenna



To obtain a narrow sensing field, use the 6-components antenna

The sensing fields (in meter) here on the right correspond to the following adjustments:

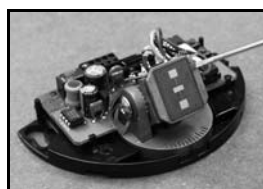
- Vertical angle of antenna : 30° ;
- Sensitivity : 9 ;
- Bidirectional mode ;
- Mounting height : 2.2m.



Remove the narrow sensing field antenna from its location.



Carefully remove the clamp of the antenna and the wide sensing field antenna.

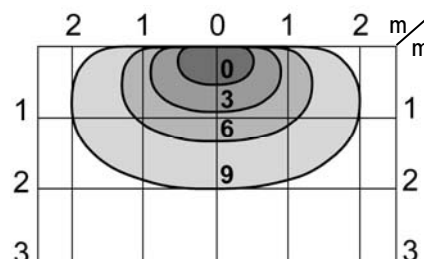


Put the new antenna on its header and fix it with the clamp.

B. DIMENSIONS OF THE SENSING FIELD (WIDTH, DEPTH, DEAD ZONE) ARE DETERMINED BY THE SENSITIVITY SETTING (0 to 9)

The sensing fields here on the right correspond to the following adjustments :

- Wide sensing field antenna ;
- Vertical angle of antenna : 30° ;
- Bidirectional mode ;
- Mounting height : 2.2m.

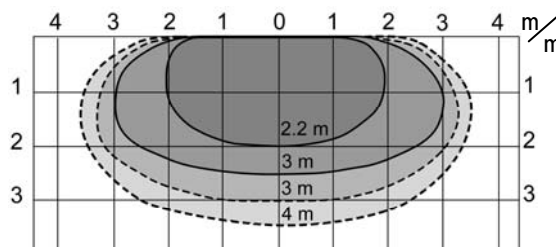


C. DIMENSIONS OF THE SENSING FIELD (WIDTH, DEPTH, DEAD ZONE) ARE DETERMINED BY THE MOUNTING HEIGHT

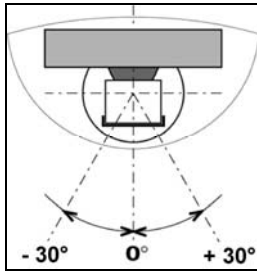
The sensing fields here on the right correspond to the following adjustments :

- Wide sensing field antenna ;
- Vertical angle of antenna : 30° ;
- Bidirectional mode ;
- Sensitivity : 9

Note : For a mounting height from 3m, it is recommended to set the sensor in the "high mounting" mode.

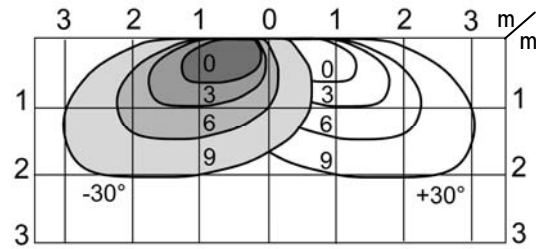


D. POSITION OF THE SENSING FIELD IS DETERMINED BY THE LATERAL ANGLE OF THE PLANAR ANTENNA



The sensing fields here on the right correspond to the following adjustments :

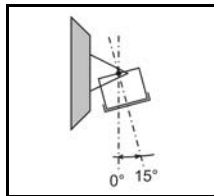
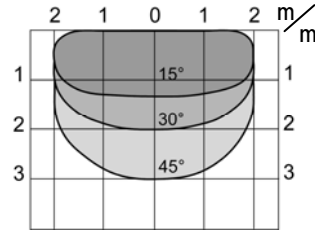
- Wide sensing field antenna;
- Bidirectional mode ;
- Lateral angle of the antenna : 30°, - 30°
- Mounting height : 2.2m.



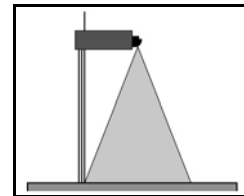
E. POSITION OF THE SENSING FIELD IS DETERMINED BY THE VERTICAL ANGLE OF THE ANTENNA

The sensing fields here on the right correspond to the following adjustments :

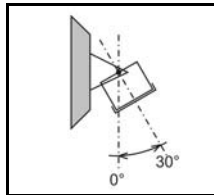
- Wide sensing field antenna;
- Sensitivity : 9 ;
- Bidirectional mode ;
- Mounting height : 2.2m.



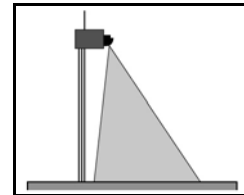
To obtain a sensing field as close to the door as possible, set the antenna at its minimum tilt angle (0° to 15°).



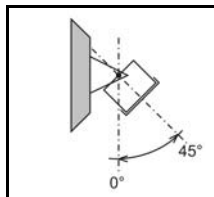
Example of deep-field operator application.



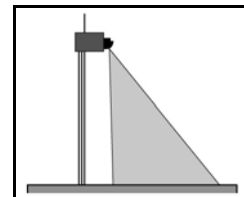
To obtain a sensing field close to the door, set the antenna at a tilt angle of 30°.



Example of standard operator application.



To obtain a sensing field distant from the door, set the antenna at a tilt angle of 45°.

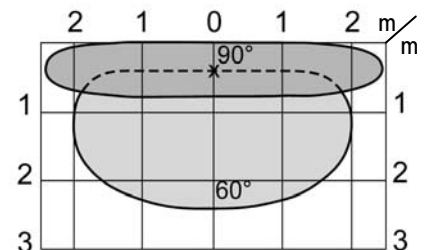


Example of standard operator application (with dead zone)

FOR A CEILING MOUNTING:

The sensing fields here on the right correspond to the following adjustments :

- Wide sensing field antenna ;
- Sensitivity : 9 ;
- Bidirectional mode ;
- Mounting height : 2.2m.

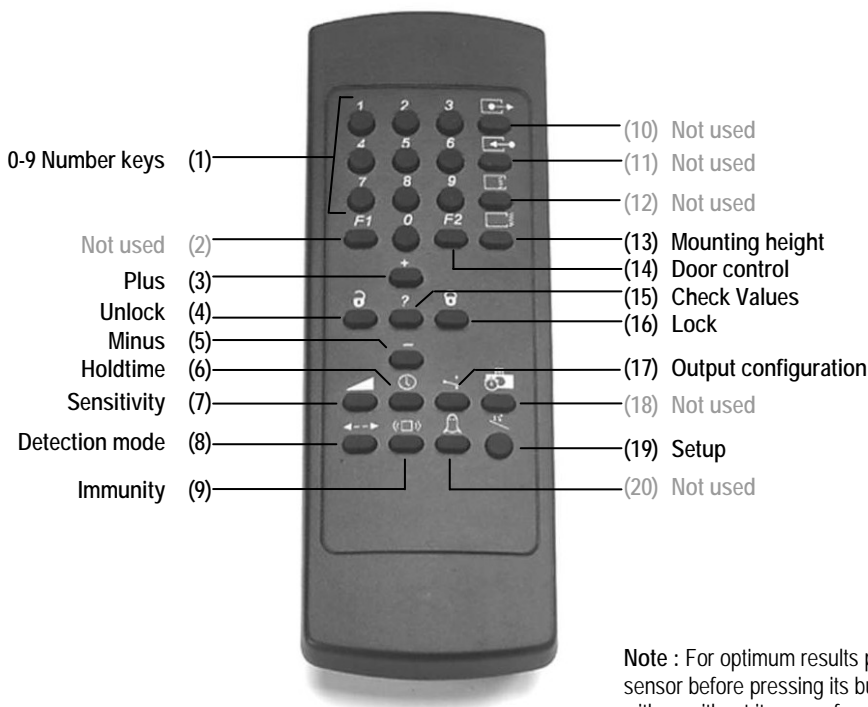


1. INSERTION OF BATTERIES



Remote Control, Id. No. 100061

- Open the battery compartment at the back of the remote control ;
- Insert two AAA batteries supplied with the remote control as shown beside ;
- Close the battery compartment.












Note : For optimum results point the remote control to the sensor before pressing its buttons. The sensor can be adjusted with or without its cover from a distance up to 5m.

2. CONFIGURATION OF THE SENSOR













Every adjustment session using the infrared remote control must start with unlocking and end with a double locking.

The table below lists the parameters able to be adjusted by remote control and the operations required in order to adjust these parameters.

























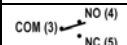
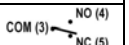
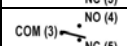
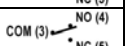
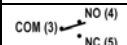
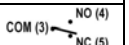
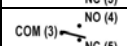
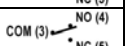
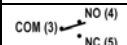
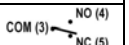
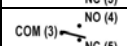
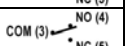




PARAMETERS	OPERATIONS	LED SIGNAL
UNLOCK 	<p>Press the UNLOCK key (4). Enter your access code using 0-9 NUMBER keys (1). The access code can be composed of 1 to 4 digits (factory values or no access code: 0 or 0000).</p> <p>During the first sensor adjustment or if the access code is reset to the "0000" value (factory setting) or during the first minute after the power-on, press only the UNLOCK key (4) (no access code required).</p> <p><i>UNLOCK with access code of 4 digits</i></p>  <p><i>UNLOCK with access code of less than 4 digits</i></p>  <p><i>UNLOCK without access code</i></p> 	<p>The red LED flashes quickly waiting for the access code.</p> <p>After entering the correct access code or if no access code is required, the red LED flashes slowly to indicate that the unlock is successful and the adjustment session has begun.</p> <p>Note.:  = Adjustment session ON</p>
LOCK 	<p>When all the parameters have been set, press the LOCK key (16).</p> <p>If you wish to enter a new access code, use 0-9 NUMBER keys (1) to enter the new four-figure access code within 1 minute.</p> <p>If no access code is entered or if you want to keep the current access code, press the LOCK key (16) once more.</p> <p>If no remote control key is pressed within 1 minute, the adjustment session is automatically locked.</p> <p><i>LOCK with access code change</i></p>  <p><i>LOCK without access code or access code change</i></p> 	<p>The red LED stops flashing to return to its normal function.</p>

Note :  All parameters or functions listed in the following tables are only accessible if the sensor is in adjustment session. The red LED is then slowly flashing.





During an adjustment session each parameter may be checked or changed at any time in the following way :

PARAMETERS	OPERATIONS
CHECK VALUES 	Press the key corresponding to the parameter to be checked and then press the CHECK VALUES key (15). Count the number of times the LED flashes, which corresponds to the value of the checked parameter. No LED flash corresponds to the value 0. Repeat this operation to check the value of the other parameters if required. Example: SENSITIVITY key (7) – 7 flashes of the LED: the radar sensitivity is set at the value 7. <i>CHECK VALUES:</i>   
PLUS 	Press the key corresponding to the sensitivity (7) or holdtime (6) parameter to be modified and then press the PLUS key (3) to increase the value by 1 unit. <i>PLUS:</i>   
MINUS 	Press the key corresponding to the sensitivity (7) or holdtime (6) parameter to be modified and then press the MINUS key (5) to reduce the value by 1 unit. <i>MINUS:</i>   

Note about LED signal : The red LED flashes quickly waiting for the value. Once this has been entered, it flashes slowly again.

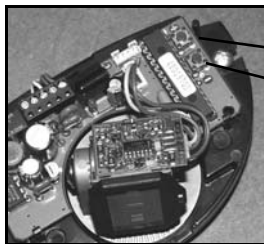
PARAMETERS	OPERATIONS	DEFINITIONS - ADVICES									
SENSITIVITY 	Press the SENSITIVITY key (7). Use the NUMBER keys 0-9 (1) to enter the sensitivity required (or adjust this parameter using the PLUS (3) or MINUS (5) keys as explained above) <i>SENSITIVITY:</i>   	To increase the sensitivity means to increase the sensor capabilities to detect small useful signals. Practically, to increase the sensitivity leads to increase the dimensions of the sensing field.									
HOLD TIME 	Press the HOLD TIME key (6). Use the NUMBER keys 0-9 (1) to enter the required hold time (0.5 s to 9 s) (or adjust this parameter using the PLUS (3) or MINUS (5) keys as explained above). <i>HOLD TIME:</i>   	The hold time allows extended output activation time after a motion detection has stopped. It is recommended to use this parameter instead of the operator's one with the same function (interferences with the sensor)									
DETECTION MODE 	Press the DETECTION MODE key (8). Use the NUMBER keys 1-5 (1) to select the required mode : Key 1 : Bidirectional mode Key 2 : Unidirectional mode Key 3 : Unidirectional mode with MTF-function Key 4 : Unidirectional mode reverse Key 5 : Unidirectional mode reverse with MTF- function <i>DETECTION MODE :</i>   	With the bidirectional mode , the approaching and departing target is detected. With the unidirectional mode , only the approaching target is detected. With the unidirectional mode reverse , only the departing target is detected. Using the MTF (Motion Tracking Feature) enables the sensor to automatically switch from the unidirectional mode to bidirectional mode as soon as a target is detected. This function is recommended for applications with elderly people or anyone approaching the door hesitantly.									
IMMUNITY 	Press the IMMUNITY key (9). Use the NUMBER keys 1-9 (1) to select the required mode: Key 1 : Detection of quasi-presence Key 2 : Normal Key 3 : Increased immunity Key 4-9 : Additional increased immunities 4: lowest level 9: highest level <i>IMMUNITY :</i>   	To increase the immunity means to strengthen the resistance to external disturbances such as rain, vibrations , etc. The additional increased immunity modes (4-9) reduce disturbances in highly reflective environments (airlocks, curved and round sliding doors, metallic environments etc.).									
MOUNTING HEIGHT 	Press the MOUNTING HEIGHT key (13), Use the NUMBER keys 1-2 (1) to select the required mounting height : Key 1 : Standard mounting height (1.8m to 3m) Key 2 : High mounting height (3 to 4m) <i>MOUNTING HEIGHT:</i>   	The sensor presents an increased sensitivity scale in high mounting mode. This setting should be used for mounting heights between 3m and 4m or is recommended when the detection on the field limits is erratic.									
OUTPUT CONFIGURATION 	Press the OUTPUT CONFIGURATION key (17). Use the NUMBER keys 1-2 (1) to select the required output configuration : Key 1 : Active mode Key 2 : Passive mode <i>OUTPUT CONFIGURATION:</i>   	<table border="1"> <thead> <tr> <th></th> <th>Active</th> <th>Passive</th> </tr> </thead> <tbody> <tr> <td>Detection</td> <td>  </td> <td>  </td> </tr> <tr> <td>No Detection</td> <td>  </td> <td>  </td> </tr> </tbody> </table>		Active	Passive	Detection			No Detection		
	Active	Passive									
Detection											
No Detection											
DOOR CONTROL 	Press the DOOR CONTROL key (14), Use the NUMBER keys 1-3 (1) to select the required door control: Key 1 : Automatic mode Key 2 : Door permanently open Key 3 : Door permanently closed <i>DOOR CONTROL:</i>   	In "door permanently open" mode, the sensor is continuously detecting. The red LED is continuously ON. In "door permanently closed" mode, the sensor is in standby. It detects nothing anymore and the LED is continuously OFF.									

During an adjustment session all parameters may be reset to their factory values in the following way :

PARAMETERS	OPERATIONS																											
FACTORY VALUES 	Press the SETUP key (19), then press the NUMBER key 9 . All the parameters (except the access code) are reset to the factory values. <i>FACTORY VALUES :</i>   																											
	<table border="1"> <thead> <tr> <th colspan="3">Factory Values Table</th> </tr> <tr> <th>Parameter</th> <th>Values</th> <th>Factory setting</th> </tr> </thead> <tbody> <tr> <td>Sensitivity</td> <td>0 - 9</td> <td>7</td> </tr> <tr> <td>Hold time</td> <td>0 - 9</td> <td>0</td> </tr> <tr> <td>Detection mode</td> <td>1 - 5</td> <td>2</td> </tr> <tr> <td>Immunity</td> <td>1 - 9</td> <td>2</td> </tr> <tr> <td>Mounting height</td> <td>1 - 2</td> <td>1</td> </tr> <tr> <td>Output configuration</td> <td>1 - 2</td> <td>1</td> </tr> <tr> <td>Door control</td> <td>1 - 3</td> <td>1</td> </tr> </tbody> </table>	Factory Values Table			Parameter	Values	Factory setting	Sensitivity	0 - 9	7	Hold time	0 - 9	0	Detection mode	1 - 5	2	Immunity	1 - 9	2	Mounting height	1 - 2	1	Output configuration	1 - 2	1	Door control	1 - 3	1
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Sensitivity	0 - 9	7																										
Hold time	0 - 9	0																										
Detection mode	1 - 5	2																										
Immunity	1 - 9	2																										
Mounting height	1 - 2	1																										
Output configuration	1 - 2	1																										
Door control	1 - 3	1																										

SENSITIVITY CONFIGURATION WITH PUSH BUTTONS

If you do not have a remote control, you can only adjust the sensitivity parameter, by means of the push buttons + and - .



+ : Press to increase the sensitivity by one unit

- : Press to decrease the sensitivity by one unit

The factory default values (except the factory value of the access code) may be restored by pressing the two push buttons together for at least two seconds.

LED SIGNAL



The LED flashes for a few seconds after the power-on, and flashes during the configuration with the remote control.

The LED lights up when the sensor detects motion.

TROUBLE-SHOOTING

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
The door will not open and no red LED lights up.	The sensor power is off. The door control is set to level 3.	Check the wiring and the power supply. Set the programming switch of the door control to closing time or automatic mode.
The door opens and closes constantly.	The sensor "sees" the door moving. When closing the door creates vibrations picked up by the sensor.	Increase the tilt angle and/or reduce the sensitivity and/or increase the immunity. Ensure that the sensor is correctly fixed. Switch to unidirectional mode. Increase the immunity. Reduce the sensitivity.
The door will not close. Red LED OFF	Programming switch of the door control in wrong position or faulty. Improper output configuration on the sensor.	Check to insure programming switch for door is in the correct position (night, closing time, automatic). Check the output configuration setting on each sensor connected to the door operator.
It rains and the sensor detects for no apparent reason.	The sensor detects the motion of the rain drops.	Use the rain accessory. Switch to unidirectional mode (without MTF) and increase the immunity.
In airlock vestibules, the sensor sees the opposite door.		Increase immunity.
In airlock vestibules, the sensor sees the movement of the door leaves, despite of an increased immunity.		Make sure that the antenna for the narrow sensing field is used.
In metallic environments, the sensor detects objects outside its detection field.		Increase immunity.
The sensor will not unlock when access code is entered.	Improper access code being entered.	Cut and restore power supply. No access code is required to unlock during the first minute after powering. Press on "unlock", then on "lock" and introduce a new access code.
The sensor does not respond to the remote control.	Batteries in the remote control are weak or installed improperly. Remote control badly pointed.	Check the batteries insertion. Change the batteries. Point the remote control towards the sensor.

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