

Microwave motion detector for automatic pedestrian doors with direction recognition

Questions? Call us at 800 - 252-1272, 8am - 5pm central standard time.

Safety instructions

- * The device must only be operated at a protective low voltage with safe electrical insulation. Product repairs must be performed solely by the manufacturer.
- * Shut off all power going to the sensor before attempting any wiring procedures.
- * Maintain a clean & safe environment when working in public areas.
- * Constantly be aware of pedestrian traffic around the door area.
- * Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- * Always check placement of all wiring and components before powering up to ensure that moving door parts will not catch any wires and cause damage to equipment.
- * Ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.

DO NOT LEAVE ANY PROBLEMS UNRESOLVED - NEVER SACRIFICE SAFETY FOR ANY REASON

Symbols meaning



= flash



= press



= on



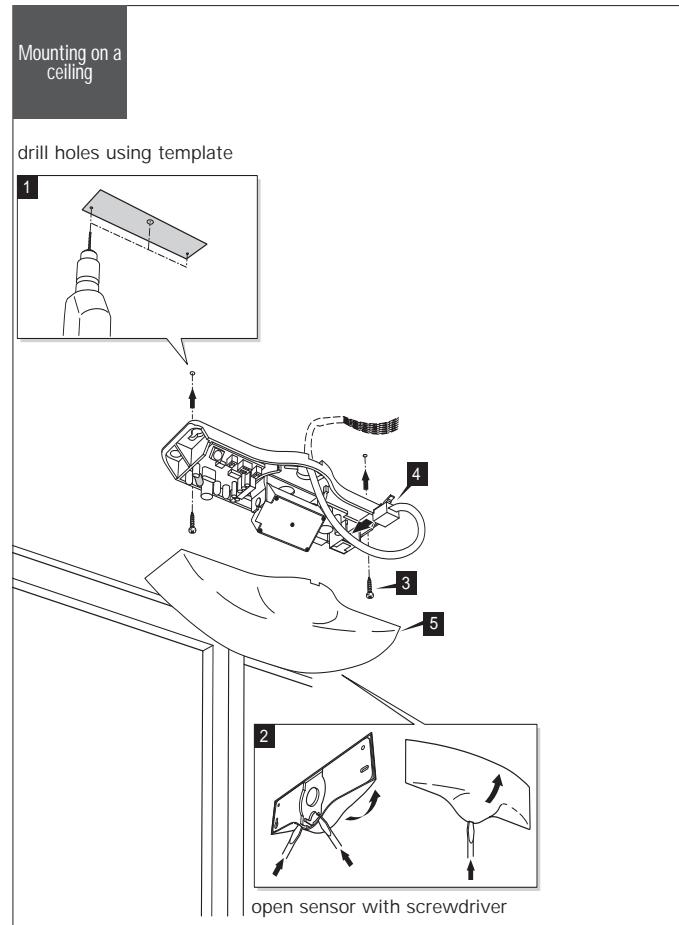
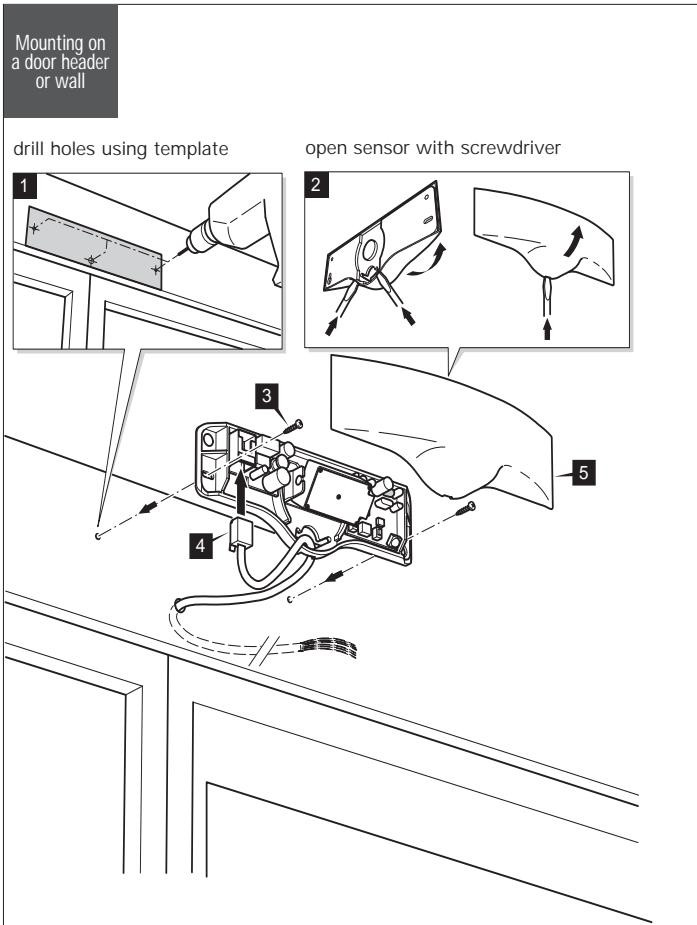
= time



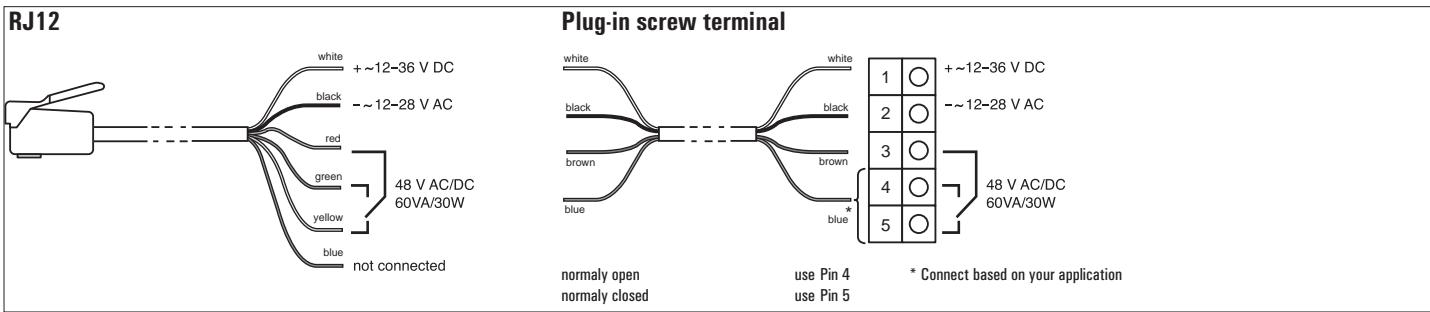
= Attention

A Installation

Physical installation



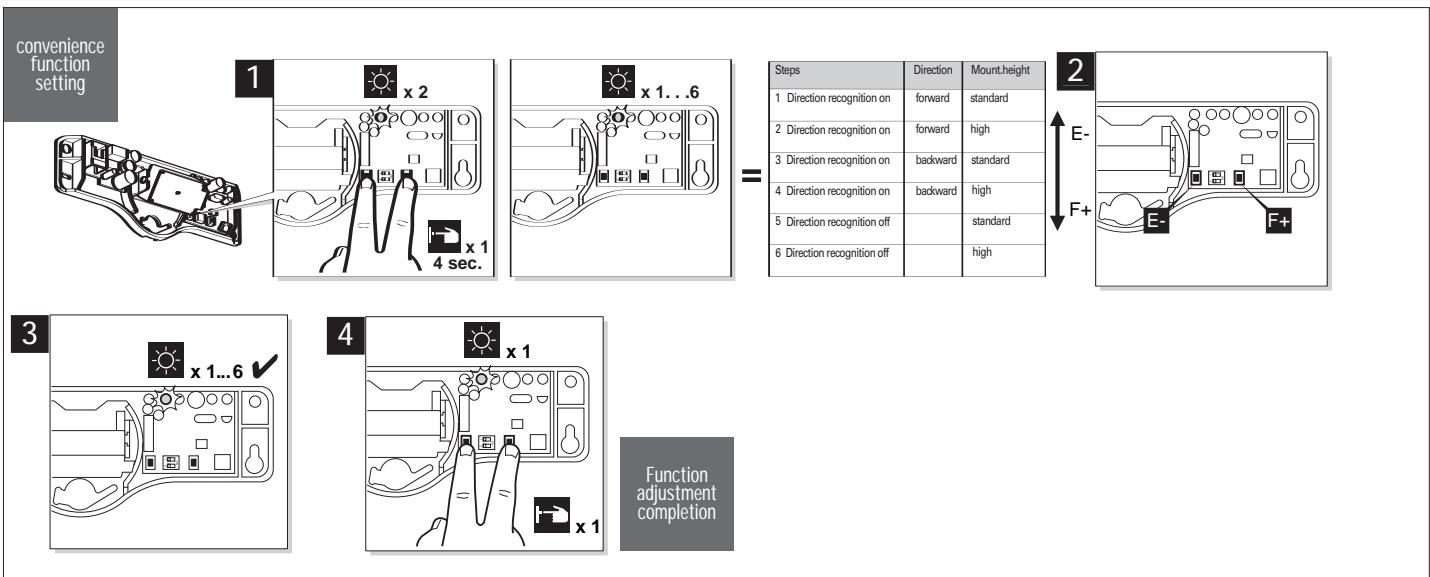
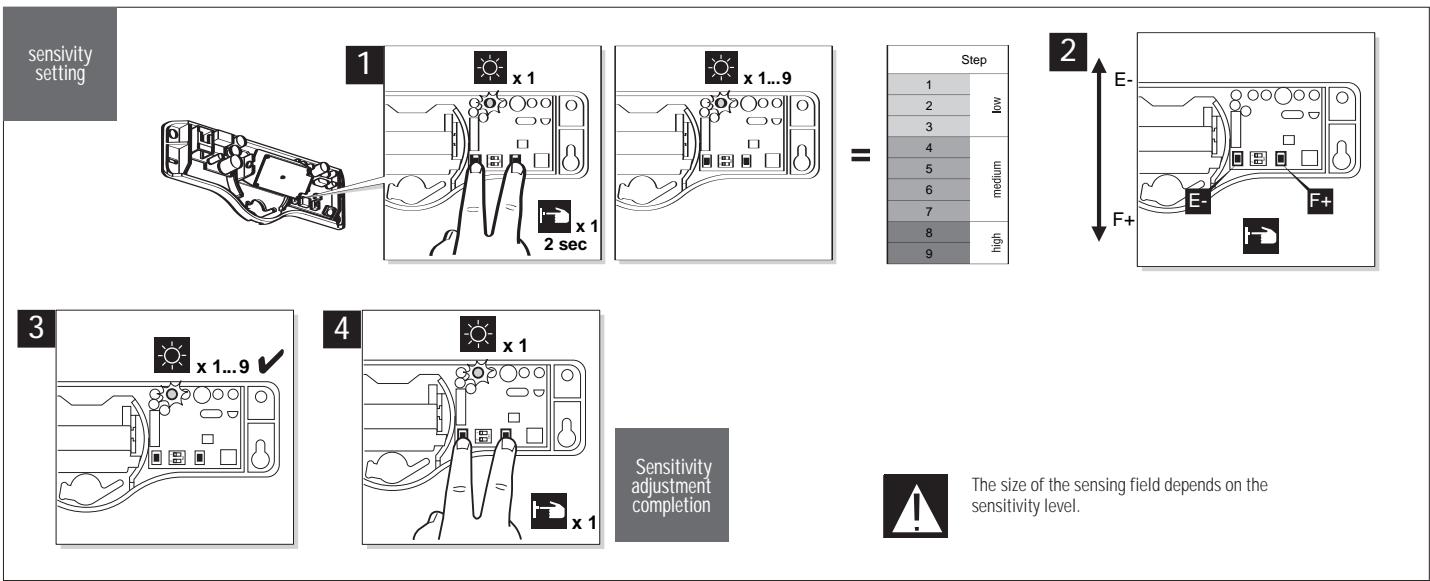
Connections



B Manual Set-up [w/o RC Duo remote control]

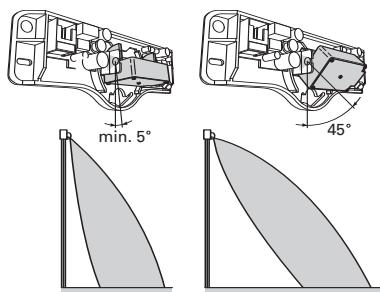


Set-up must be completed in 25 sec., or you will have to restart the set-up procedure from the beginning.

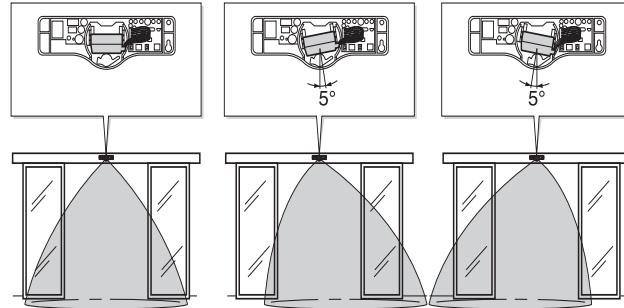


C Other field adjustments - frontal and lateral inclination

changing frontal Inclination

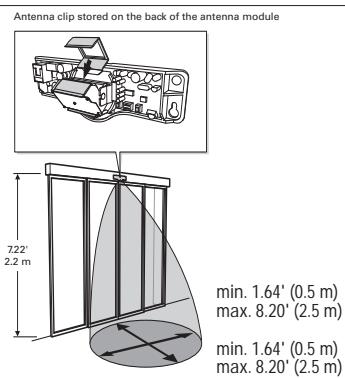


changing lateral Inclination



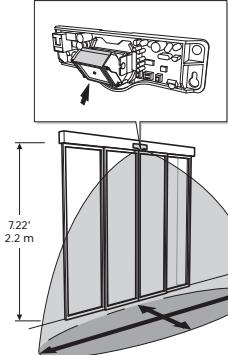
Other field adjustments - normal and wide detection field

Normal detection field w/o clip



Wide detection field with clip

Antenna clip stored on the back of the antenna module



The use of the clip requires the amplification (F41)

min. 1.64' (0.5 m)
max. 8.20' (2.5 m)

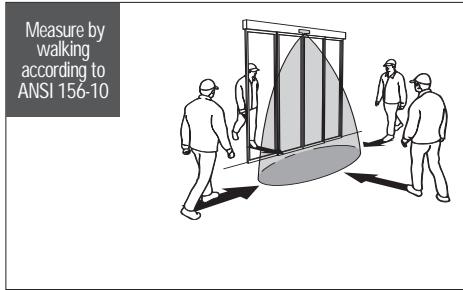
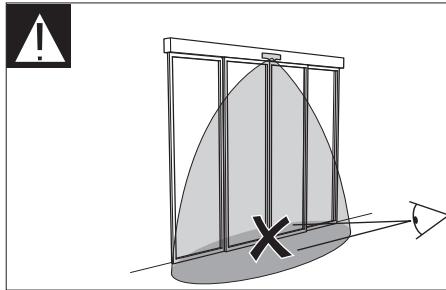
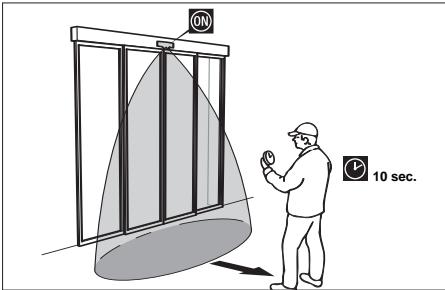
min. 1.64' (0.5 m)
max. 8.20' (2.5 m)

After removing or putting the clip on the antenna, the power supply must be interrupted for min. 5 sec.

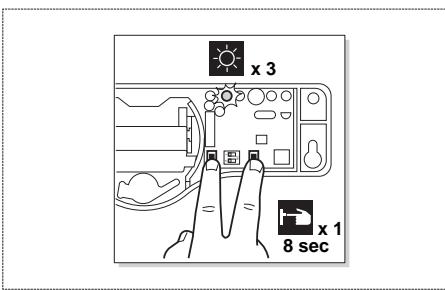
Mounting height	
<9.84' (3m)	>9.84' (3m)
Narrow field	without clip
Wide field	with clip

Use the clip for wide fields according to the table on the left.
* At mounting heights above 10', wide fields are set using the frontal inclination angle (section C1) and the sensitivity (section H).

D Testing of the settings



How to reset to factory settings



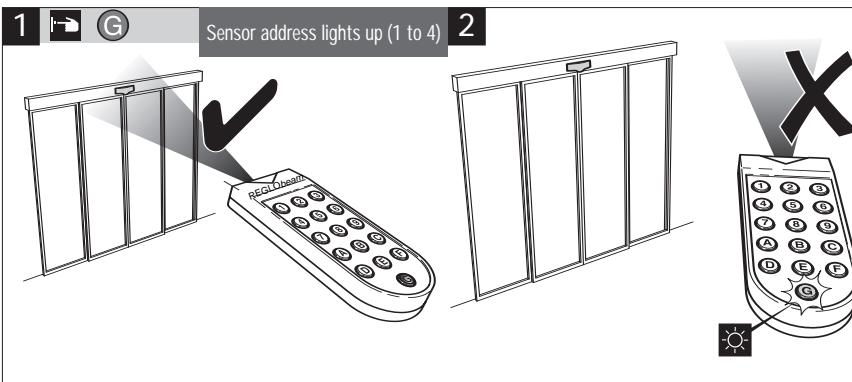
E Settings with RC Duo [Bi-directional remote control]



The RC Duo is bi-directional.
Flashing keys on the RC Duo indicate that the settings have not been saved yet.
Static lit keys on the RC Duo indicate that the settings have been saved.

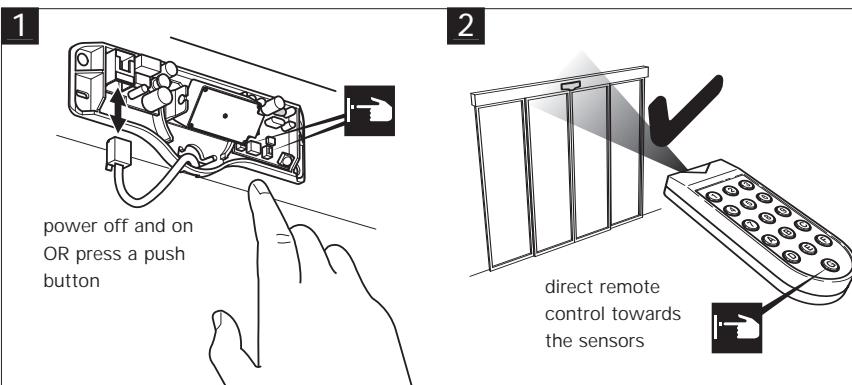
We recommend first programming the sensor with a convenience configuration and then fine tune settings if needed.

Establish connection between the RC Duo remote and the sensor

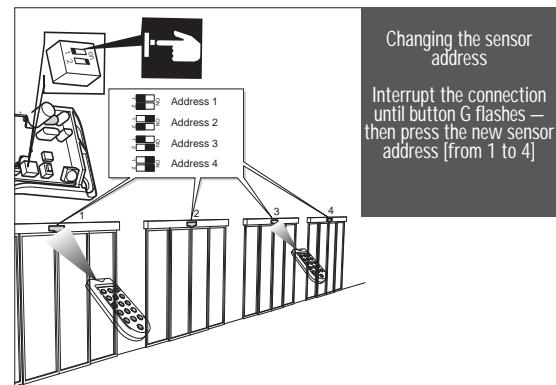


For safety reasons the connection is automatically interrupted after 30 min.
To restore the connection, see next.

Restore communication with the RC Duo [if it turned off after 30 minutes]



Multiple sensors set-up: assign a unique address to each



F Pre-programmed convenience configurations

B: direction recognition

D: field size

F1: additional output holding time

F2: output signal

F3: slow motion detection (SMD)

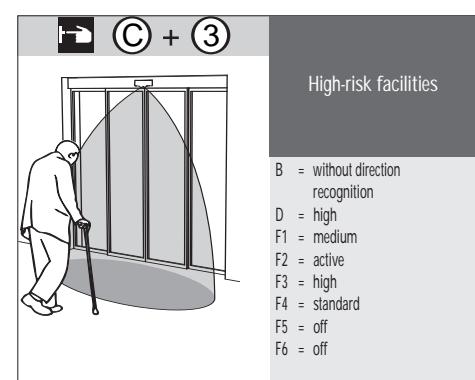
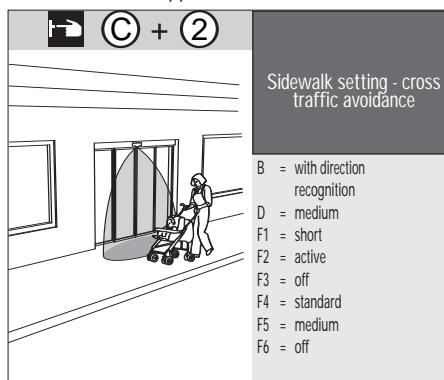
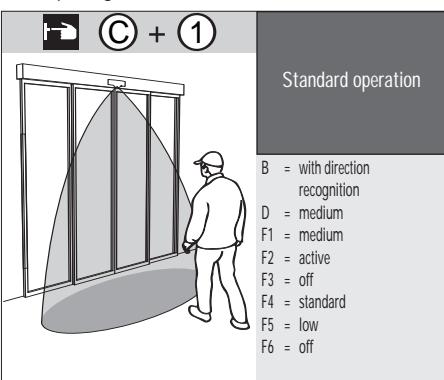
F4: mounting height

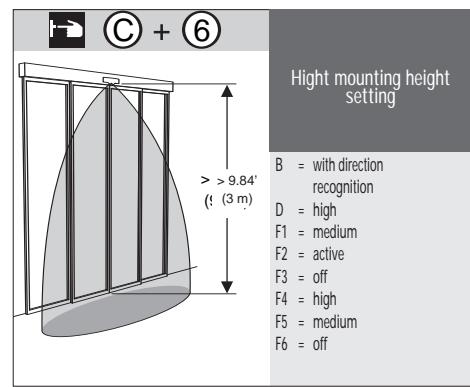
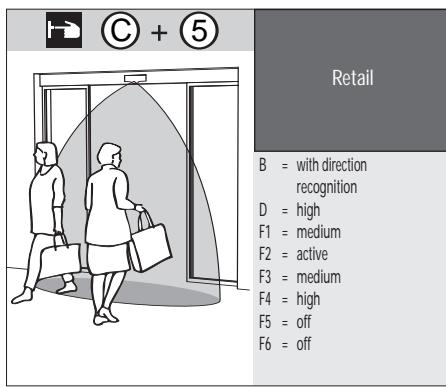
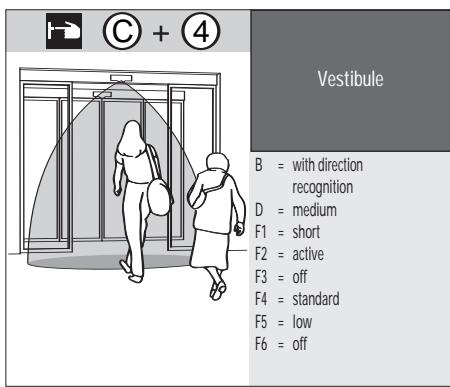
F5: cross traffic optimization

F6: interference suppression

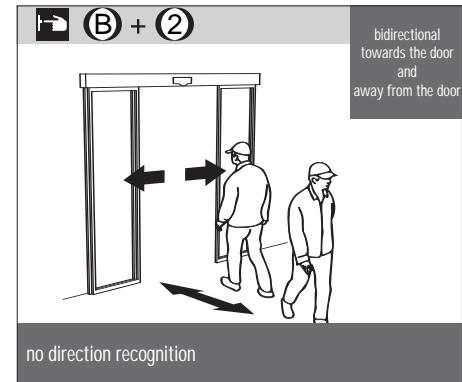
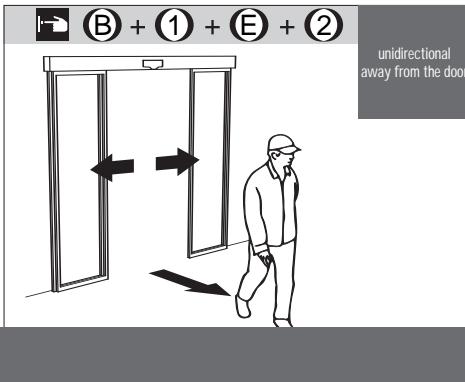
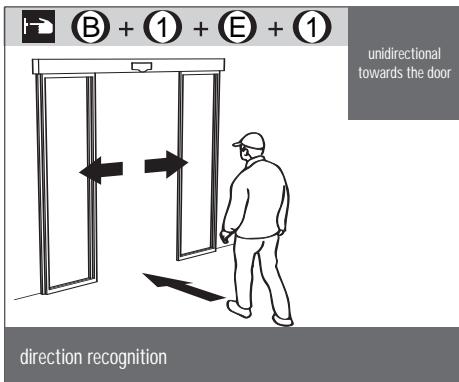


If the convenience configuration does not fit your application, use custom settings.

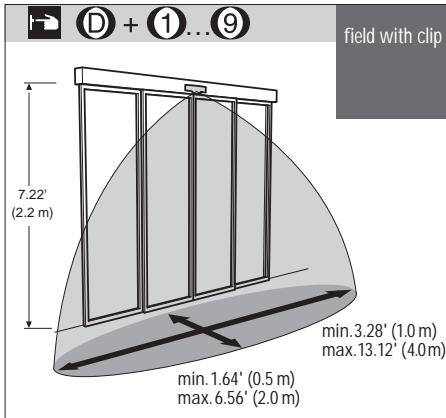
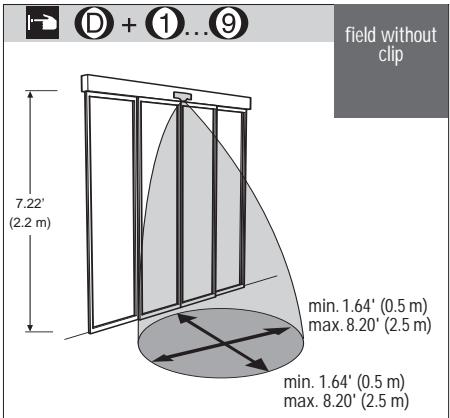




G Direction recognition

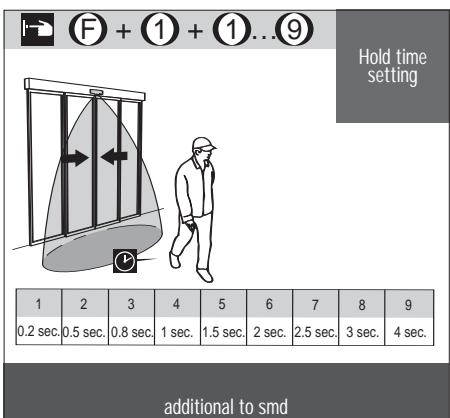


H Sensitivity



I Special functions

Relay hold time setting



Slow motion detection setting & adjustment

F + 3 + 1...9

Slow motion detection [SMD] (detects slower moving people/objects)

Slow motion detection Level	min. active time for static in sec.
1 no static	no static
2 static decreasing	0.5 %
3 static decreasing	1.0
4 static decreasing	1.5
5 static decreasing	2.0
6 static constant	0.5
7 static constant	1.0
8 static constant	1.5
9 static constant	2.0

Time



NO / NC

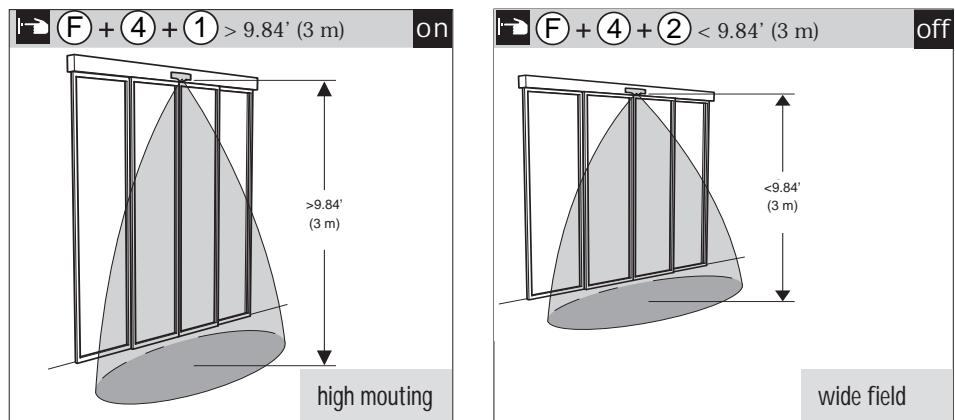
 **(F) + (2) + (1)** = active

Relay switches on upon detection

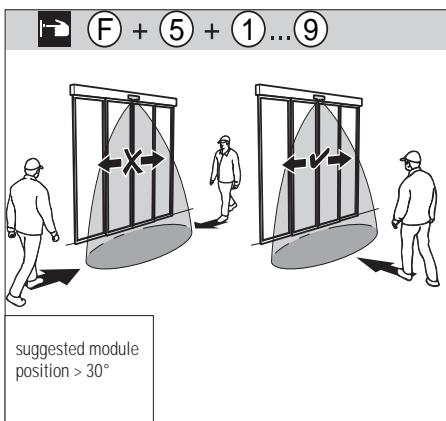
 **(F) + (2) + (2)** = passive

Relay switches off upon detection

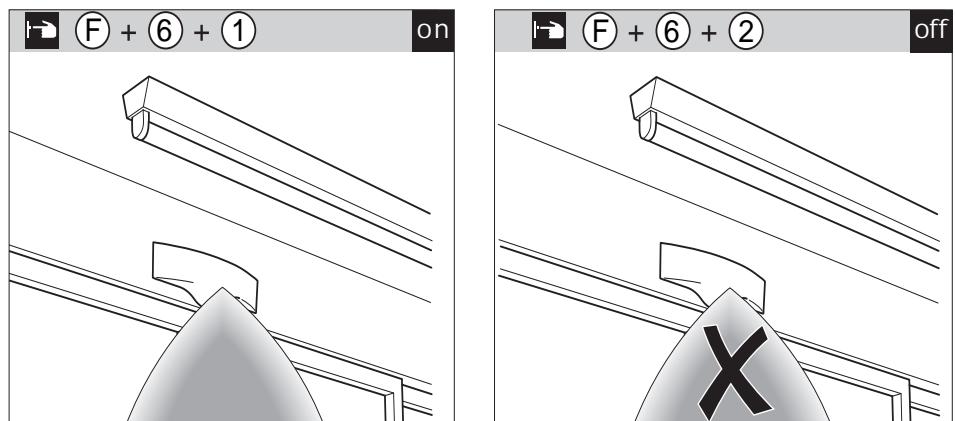
Amplification level 1 for high mounting or wide field [max. mounting height 13 feet]



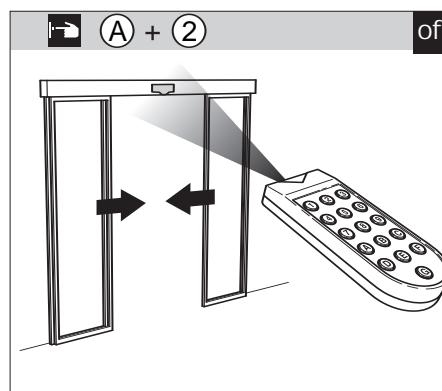
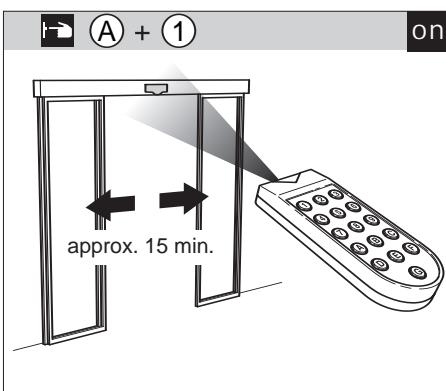
Cross traffic optimization



Interference filter



K Manual door opening & closing [through the sensor remote]



M Technical data

Power supply	12–36 V DC / 12–28 V AC
Current consumption	approx. 70 mA at 24 V AC
Temp. range	–4 F to +140 F
Humidity	0 to 90% rel.
Microwave module	K-band 24,125 GHz +/- 100 MHz
Transmitting power	< 20 dBm
LED red = Detection activated	green = for adjusting functions
Relay output pot. free	change-over contact
Switching voltage	48 V AC/DC
Switching current	0.5 A AC/1 A DC
Switching power	60 VA / 30 W
Protection class	suitable for the application after IP 54
Housing material	ABS
Recommended maximum mounting height	13.12'

N Contact

If after troubleshooting a problem, a satisfactory solution cannot be achieved, please call Bircher Reglomat at 800 - 252-1272 from 8am - 5pm central standard time. You may also visit our website at www.bircherreglomat.com

**DO NOT LEAVE ANY PROBLEMS UNRESOLVED
NEVER SACRIFICE SAFETY FOR ANY REASON**

O Disclaimer

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For the latest version, please log on to www.bircherreglomat.com or call us at 847-952-3730 to request a copy of the current version.

FCC APPROVAL

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- *this device may not cause harmful interference, and
- *this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- *Reorient or relocate the receiving antenna
- *Increase the separation between the equipment and receiver
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- *Consult the dealer or an experienced radion/TV technician for help

Warning: Changes or modifications to this equipment not expressly approved by Bircher Reglomat AG may void the FCC authorization to operate this equipment.