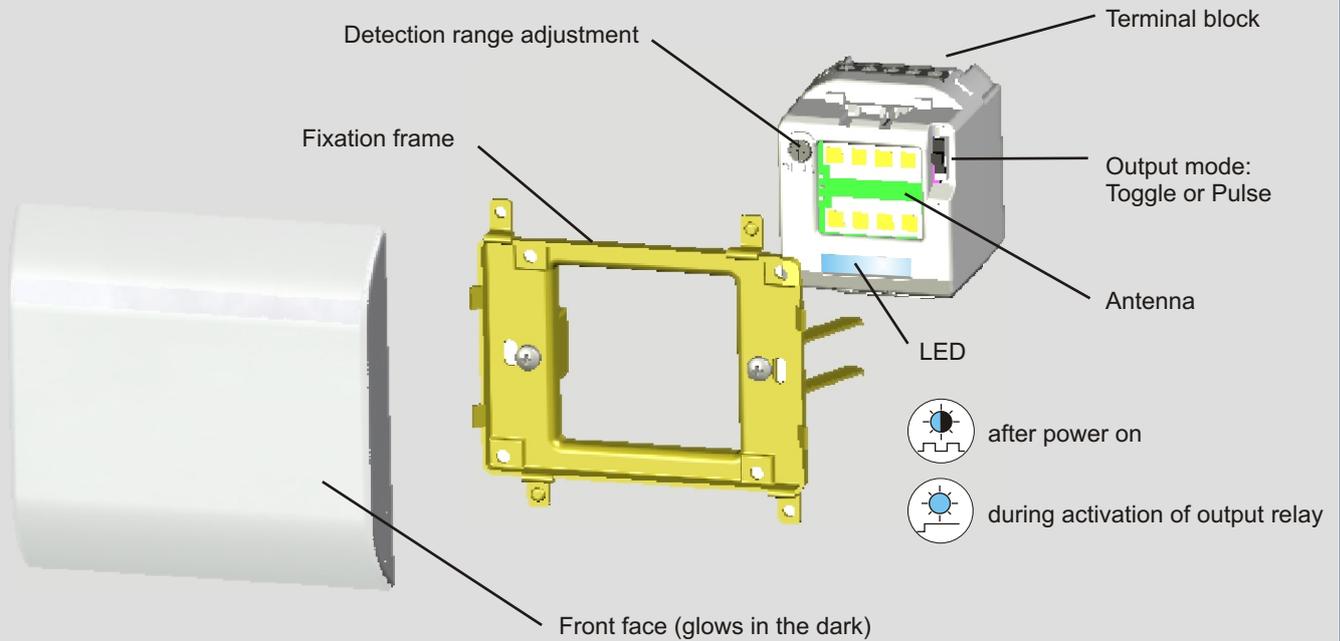


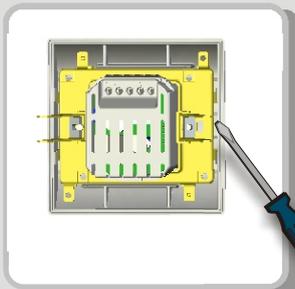
MICROWAVE CONTACTLESS SWITCH FOR AUTOMATIC DOORS

DRAFT

DESCRIPTION



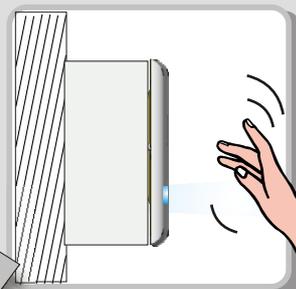
INSTALLATION TIPS



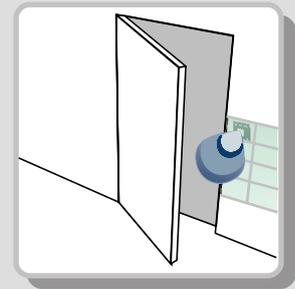
Use the screwdriver to remove the front face.



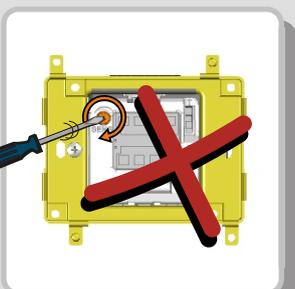
Place a silicone seal to increase water resistance.



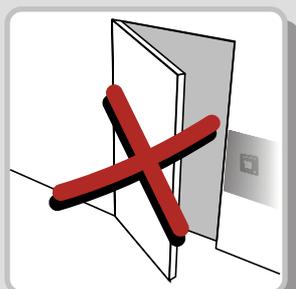
The sensor can be installed on the surface by using the surface mount box.



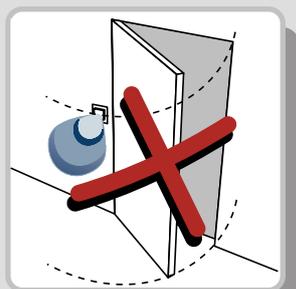
The sensor can be placed behind tiles, wood, plaster, plastic and glass.



Do not force when turning the adjustment screw.



Do not place the sensor behind metallic plates.

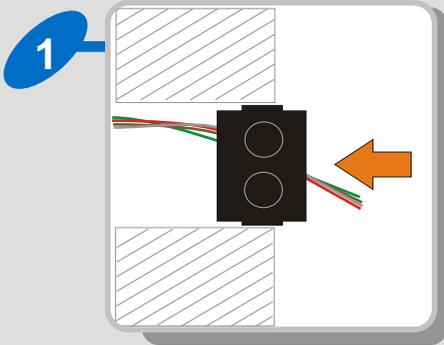


Do not place the sensor in the opening range of the door.

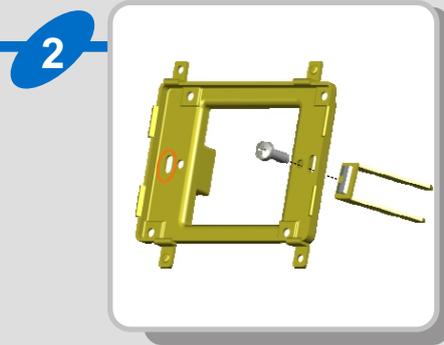


Avoid moving objects in front of the sensor

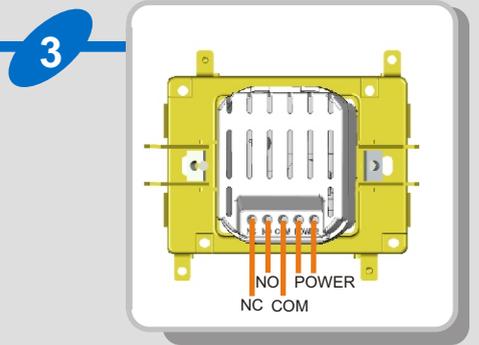
INSTALLATION



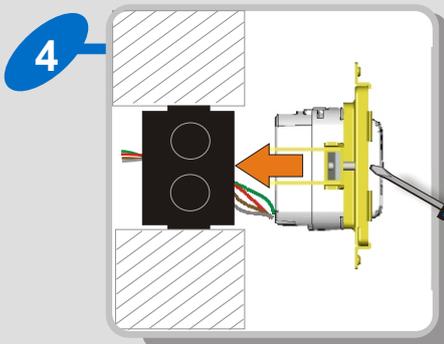
1 Make a hole and insert the recessed box into the opening. Pull the wires through the box.



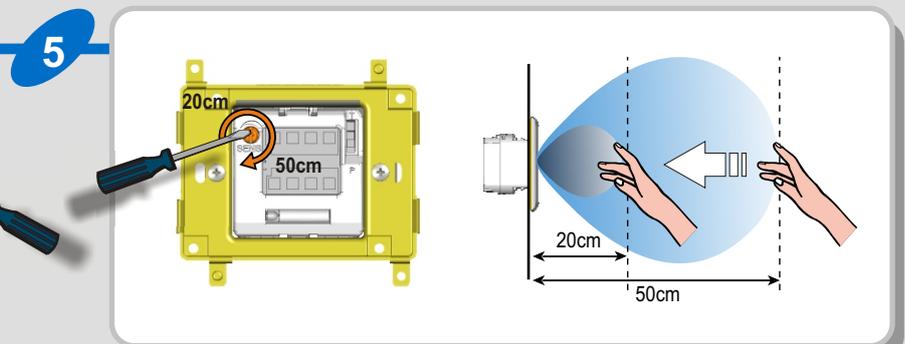
2 If you don't use the fixation brackets, unscrew them and use the screws of the recessed housing in the oval holes.



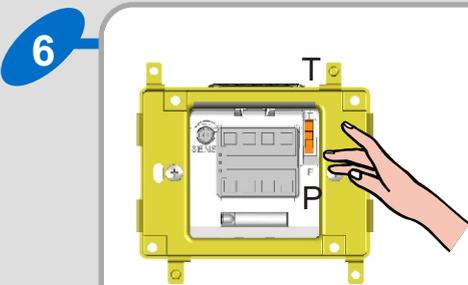
3 Connect the wires to the terminal block. After connection, the LED flashes.



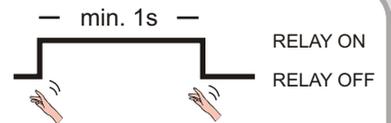
4 Insert the housing into the recessed box and tighten the screws firmly.



5 Adjust the detection range according to the application. Note that the detection range depends on the trajectory and size of the detected object.



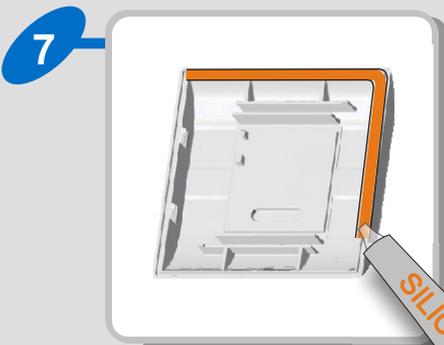
TOGGLE MODE: Recommended for switch applications. In toggle mode, a detection activates the relay and a second detection deactivates it again.



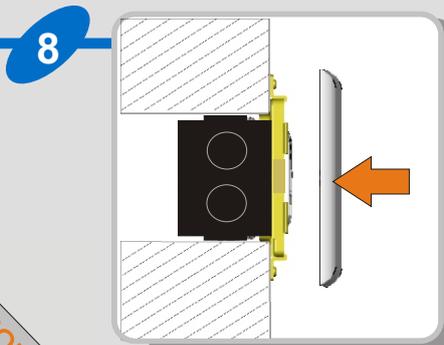
PULSE MODE: Recommended for automatic door applications. In pulse mode, a detection activates the relay for a short period of time (depending on the duration of the movement in front of the sensor).



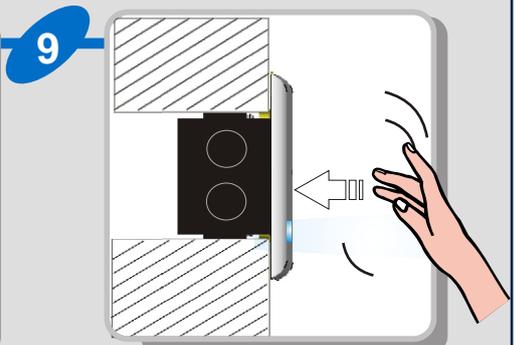
6 Make sure the output mode is set to PULSE-mode (P) for standard door applications.



7 In order to increase water resistance, place a silicone seal on the front cover.



8 Clips the front cover on the fixation bracket.



9 Make sure the LED-signal is visible and test the good functioning of the sensor by moving the hand towards the sensor.

TROUBLESHOOTING

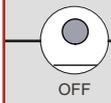
SYMPTOM

LED

POSSIBLE CAUSES

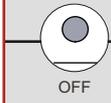
CORRECTIVE ACTION

The door does not open even when moving hand towards the sensor.



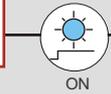
Bad or no power supply

Check power supply.
If LED switches on or flashes, power connection is OK.



Detection range is too small.

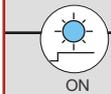
Adjust the detection range.



Wrong connection

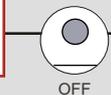
Check wiring and relay connection.

The door remains permanently open.



The environment influences the good functioning of the sensor.

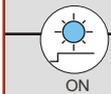
Remove any moving objects close to the sensor.



Wrong connection

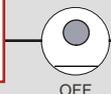
Check wiring and relay connection.

The door remains open after detection/activation.



Wrong output mode

Switch the output mode to PULSE mode.



Wrong connection

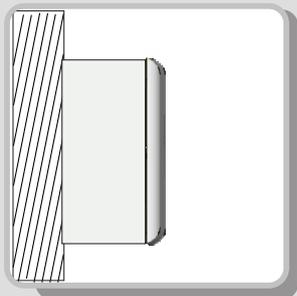
Check wiring and relay connection.

TECHNICAL SPECIFICATIONS

Technology:	Microwave motion sensor
Radiated frequency:	24.125 GHz
Radiated power density:	$\ll 5\text{mW/cm}^2$
Detection range (hand):	+/- 20 - 50 cm if movement towards sensor at 90° (adjustable)
Detection mode:	Motion (bidirectional)
Speed of target to create detection:	Min. 5Hz or +/- 3cm/s, Max. 200Hz or +/- 1.2m/s
Supply voltage:	12 - 24V AC +/- 10% 12 - 24V DC +30% / - 10%
Mains frequency:	50 - 60 Hz
Power consumption:	< 1.2W
Output:	Relay with switch-over contact (free of potential)
Max. voltage:	60V DC / 125V AC
Max. current:	1A (resistive)
Max. switching power:	30W (DC) / 60VA (AC)
Output hold time:	0.5s (in PULSE mode)
Temperature range:	-20°C - +55°C
Norm conformity:	Electromagnetic compatibility (EMC) according to 2004/108/EC
Material:	ABS
Colour:	White phosphorescent
Recommended wiring cable:	Stranded cable up to 16 AWG - 1.5mm ²

Specifications are subject to changes without prior notice

ACCESSORIES AND OPTIONS



Surface mount box



Magic Switch logo
in laser engraving



Your company logo
in laser engraving

LED SIGNAL



LED flashes



LED switches ON



LED is OFF

The colour version of this user's guide, the declaration of conformity and other technical documentation are available on our website or can be requested by phone or mail.

