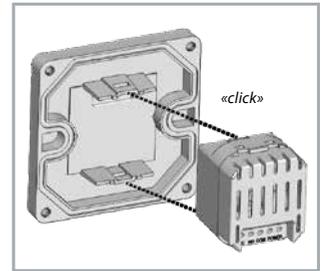
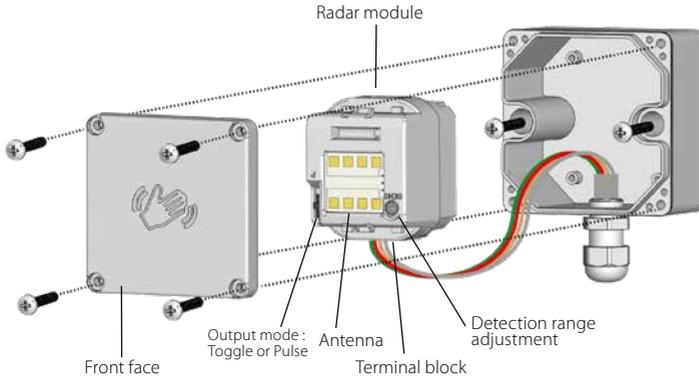


# MAGIC SWITCH IP65

EN

Contactless knowing act sensor  
for automatic doors

## DESCRIPTION

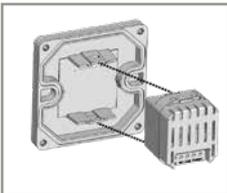


## WHAT YOU NEED

- ISO7045 M4 x 25 mm
- DIN 7981 N°6 X1/2



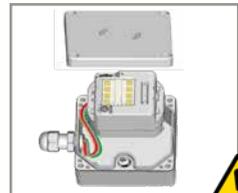
## INSTALLATION TIPS



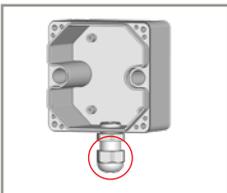
Assemble the module by clipping it to the front face.



If you need to unclip the radar module from the front face, use a screwdriver or a pencil.



When you close the box, make sure the cables are not squeezed under the radar module !



To ensure waterproofness, do not remove the cable gland.

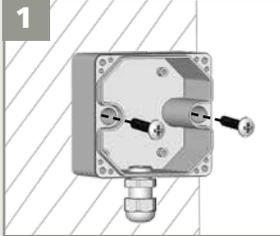


Do not place the sensor in the opening range of the door.

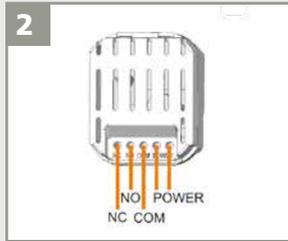


Avoid moving objects in front of the sensor.

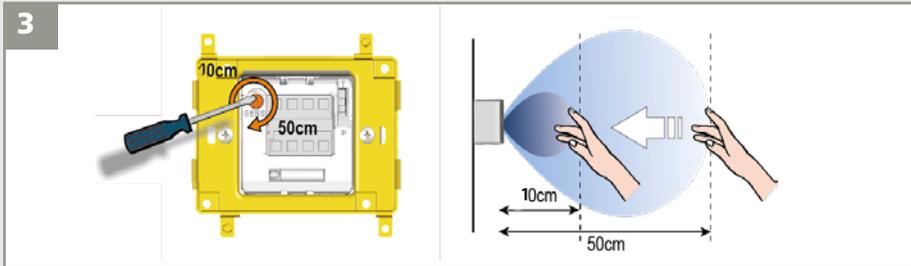
# INSTALLATION



1 Screw the box to the wall.

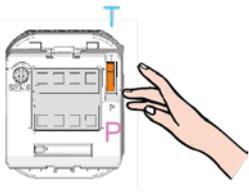


2 Connect the cables to the radar module.



3 Adjust the detection range according to the future application. The detection range depends on the trajectory of movement, size and type (material) of the detected object.

4



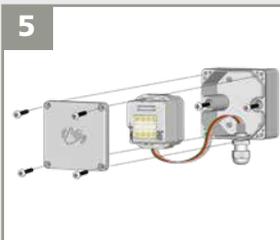
**TOGGLE MODE ( T ):** Recommended for switch applications. The first detection activates the relay output and the second detection deactivates it. In door applications the door remains open after the first activation.



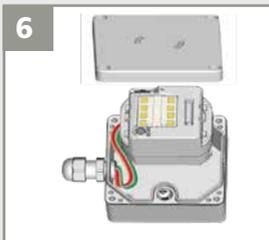
**PULSE MODE ( P ):** Recommended for automatic doors applications. The first detection activates the relay output for a short period of time (depending on the duration of the movement in front of the sensor).



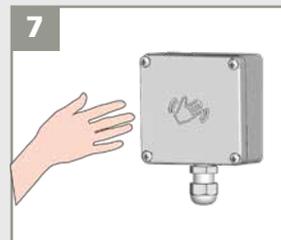
Make sure the output mode is set to PULSE-mode (P) for standard door applications.



5 Screw the front face to close the box.



6 Make sure the cables are not squeezed under the radar module when you close the box.



7 Test the good functioning of the sensor by moving the hand towards the sensor.

## TROUBLESHOOTING

The door does not open even when moving the hand towards the sensor.		Bad or no power supply.	Check power supply. <i>If LED switches on or flashes, power connection is OK.</i>
		Detection range is too small.	Adjust the detection range. Remove any metal plates in front of the sensor.
		Wrong connection.	Check wiring and relay connection.
The door remains permanently open.		The environment influences the good functioning of the sensor.	Remove any moving object 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.



The LED is only visible when the front face is removed

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave motion sensor
<b>Radiated frequency</b>	24.150 GHz
<b>Radiated power density</b>	<< 5mW/cm <sup>2</sup>
<b>Detection range (hand)</b>	+/- 10 to 50 cm if movement towards sensor at 90° (adjustable)*
<b>Detection mode</b>	Motion (bidirectional)
<b>Speed of target to create detection</b>	Min. 5Hz or +/- 3cm/s Max. 200Hz or +/- 1.2m/s
<b>Supply voltage</b>	12 - 24V AC +/- 10% 12 - 24V DC +30% / - 10%
<b>Mains frequency</b>	50 - 60 Hz
<b>Power consumption</b>	< 1.2W
<b>Output</b>	Relay with switch-over contact (free of potential)
Max. voltage	48V AC - 60V DC
Max. current	1A (resistive)
Max. switching power	30W (DC) / 48VA (AC)
<b>Output hold time</b>	0.5s (in PULSE mode)
<b>Temperature range</b>	-20°C to +55°C
<b>Degree of protection</b>	IP65
<b>Norm conformity</b>	RED 2014/53/EU and 2011/65/EU
<b>Material</b>	ABS / PC
<b>Colour</b>	White
<b>Recommended wiring cable</b>	Stranded cable up to 16 AWG - 1.5mm <sup>2</sup>

\* An adjustment of the detection field below 10 cm is possible but the detection capability of the sensor can not be guaranteed.

Specifications are subject to change without prior notice

