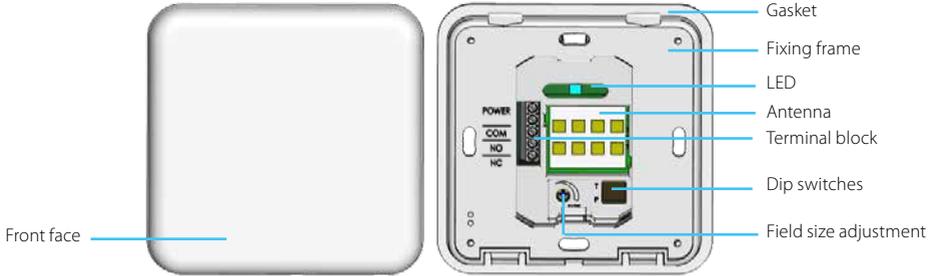


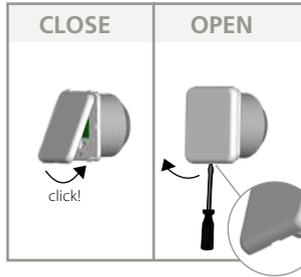
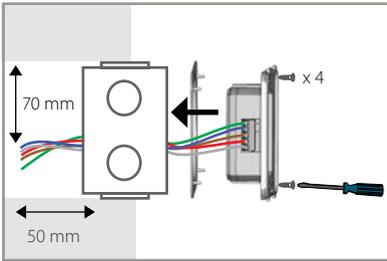
# MAGIC SWITCH

CONTACTLESS KNOWING ACT SENSOR  
FOR AUTOMATIC DOORS

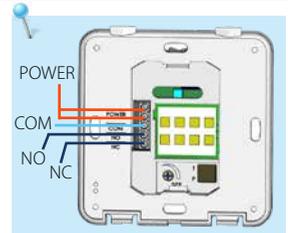
## DESCRIPTION



## INSTALLATION

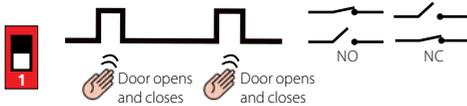


## ADJUSTMENTS

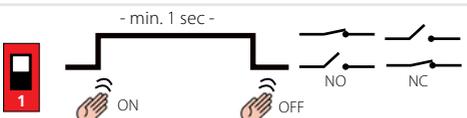


## 2 DIP SWITCH SETTINGS

### DIP 1 : OUTPUT MODE

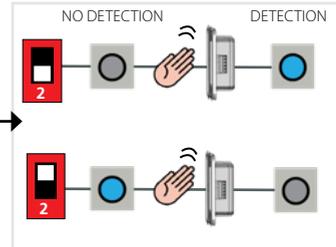


**PULSE MODE** : Recommended for automatic doors applications.



**TOGGLE MODE** : Recommended for switch applications.

### DIP 2 : COLOUR LOGIC



## TROUBLESHOOTING

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 short.	Adjust the detection range. Remove any metal plates in front of the sensor.
	Incorrect wiring / connection.	Check wiring and relay connection.
Sensor stays in detection.	The environment influences the good functioning of the sensor.	Remove any moving object around the sensor.
	Incorrect wiring / connection.	Check wiring and relay connection.
Door remains open after detection/activation.	Wrong output mode.	Switch the output mode to PULSE.
	Incorrect wiring / connection.	Check wiring and relay connection.

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave motion sensor
<b>Radiated frequency</b>	24.150 GHz
<b>Radiated power</b>	< 20 dBm EIRP
<b>Radiated power density</b>	< 5mW/cm <sup>2</sup>
<b>Detection range (hand)</b>	+/- 10 to 60 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% (50 - 60 Hz) 12 - 24V DC +30% / - 10%
<b>Power consumption</b>	< 1.5W
<b>Output**</b> Max. voltage Max. current Max. switching power	Relay with switch-over contact (voltage free) 60V DC / 30 VAC 1A (resistive) 15W
<b>Output hold time</b>	0.5s (in PULSE mode)
<b>Temperature range</b>	-20°C to +55°C
<b>Degree of protection</b>	IP54 with front face and gasket mounted on a smooth surface
<b>Material</b>	PC
<b>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.

\*\* External electrical sources must be within specified voltages, max 15W and ensure double insulation from primary voltages.

*Technical specifications are subject to changes.*

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BEA hereby declares that the Magic Switch is in compliance with European Directives 2014/53/EU (RED) and 2011/65/EU (RoHS).

The full text of the EU declaration of conformity is available on our website.  
This product should be disposed of separately from unsorted municipal waste.

