



MAGIC SWITCH CHROMA

CONTACTLESS KNOWING ACT SENSOR FOR AUTOMATIC DOORS

VERSIONS

STANDARD VERSION

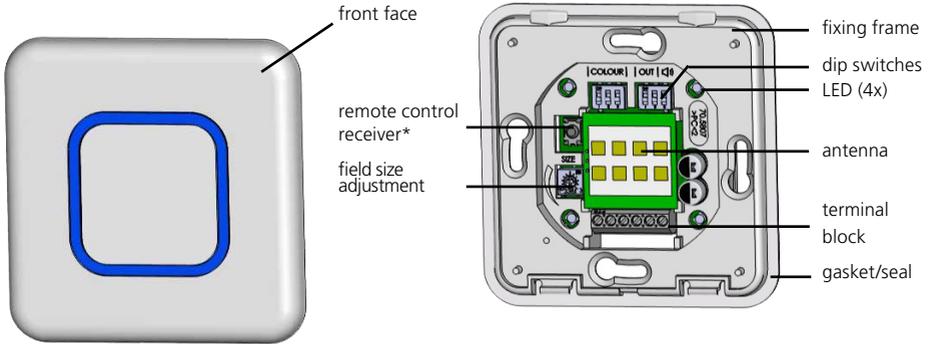
- Antimicrobial front face
- Multicoloured LED-feedback
- IP65
- Toggle-function

ADVANCED VERSION

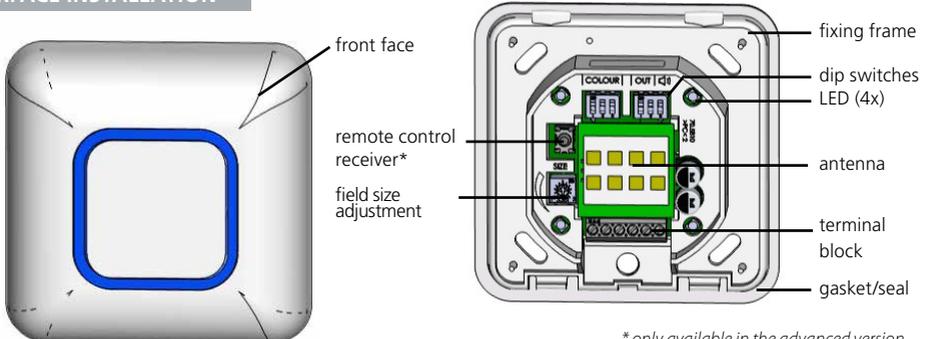
- Antimicrobial front face
- Multicoloured LED-feedback
- IP65
- Toggle-function
- Audible feedback
- Remote control adjustments (see remote control settings annex)
- Settings for specific application through external signal input

DESCRIPTION

RECESSED INSTALLATION

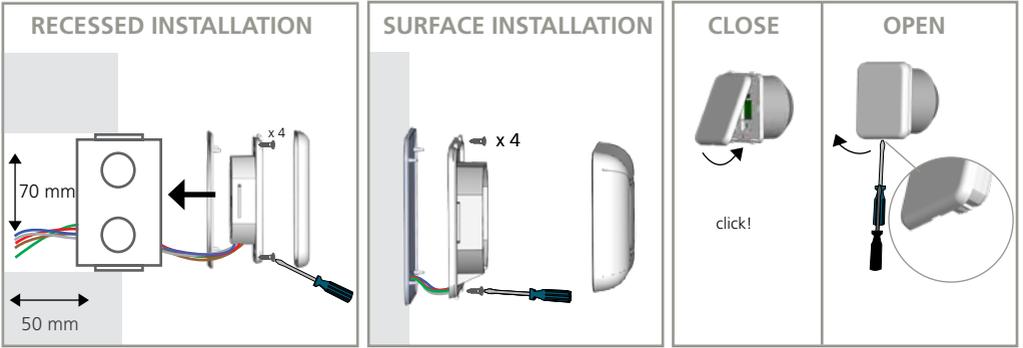


SURFACE INSTALLATION

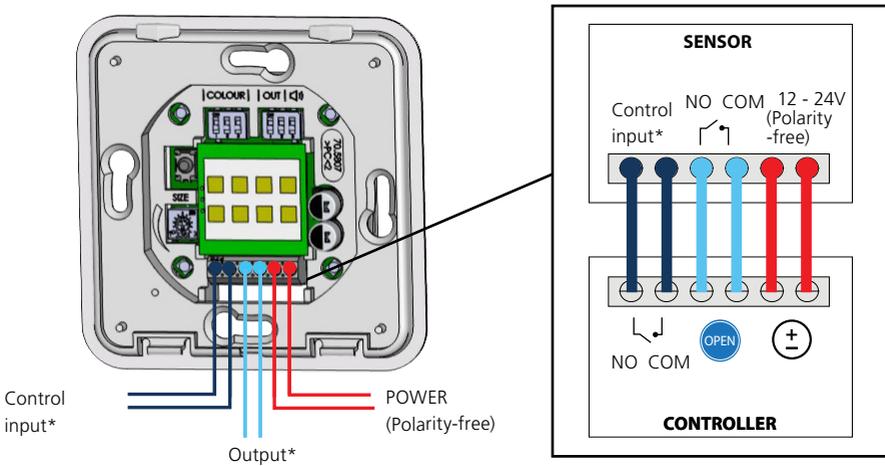


* only available in the advanced version

INSTALLATION

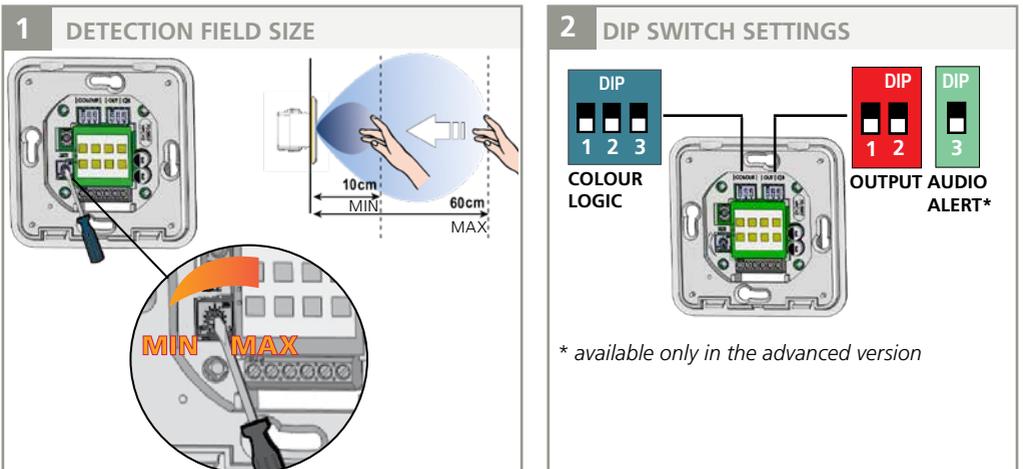


WIRING

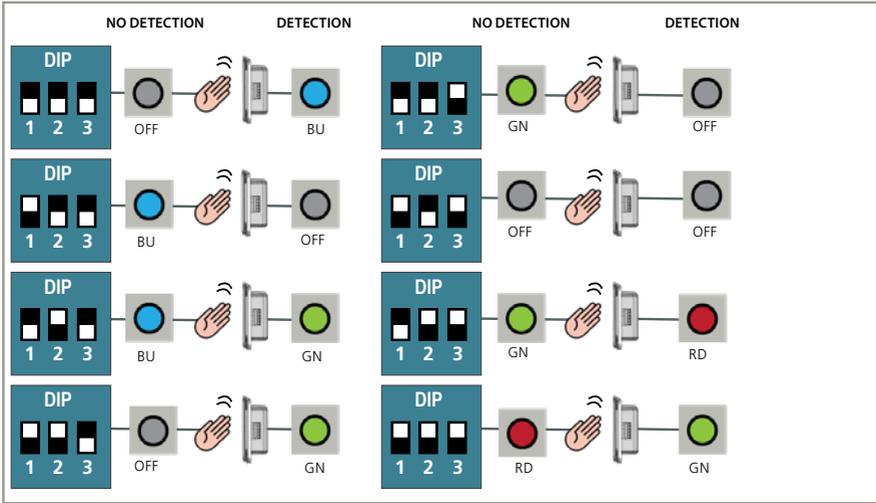


* See page 3.

ADJUSTMENTS



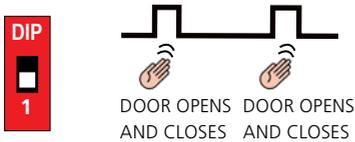
LED COLOUR LOGIC



OUTPUT MODE

PULSE MODE:

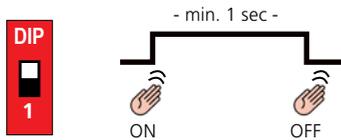
recommended for automatic doors applications



NORMALLY OPEN (NO)



TOGGLE MODE: recommended for switch applications



NORMALLY CLOSED (NC)

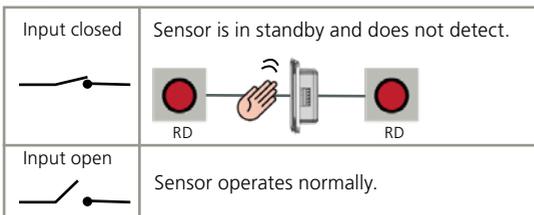


SETTINGS FOR ADVANCED VERSION ONLY

CONTROL INPUT

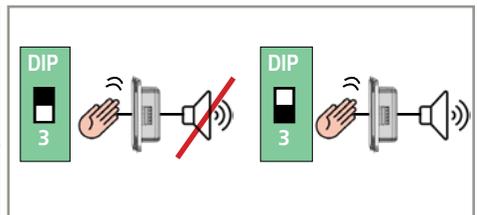
Connect the input to an external signal to lock the switch and make the LED red.

Input signal must be a dry contact (no voltage)



AUDIO ALERT

Detection activates an audio alert.



For restroom application, see application note for more details.

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

Technology	Microwave motion sensor
Radiated frequency	24.150 GHz
Radiated power	< 20 dBm EIRP
Radiated power density	< 5mW/cm ²
Detection range (hand)	+/- 10 to 60 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% (50 - 60 Hz). 12 - 24V DC +30% / - 10%
Power consumption	< 1.5W
Output** Max. voltage Max. current Max. switching power	Electronic relay (galvanic isolation - polarity free) 42V DC/30 VAC 100 mA 15 W
Output hold time	0.5s (in PULSE mode)
Temperature range	-20°C to +55°C
Degree of protection	IP65 with front face and gasket mounted on a smooth surface
Material	PMMA / PC Front face is treated with biomaster silver biocide tested to ISO 22196:2011. Please use biocides responsibly.
Dimensions	80 x 80 x 21mm
Wiring cable	Stranded cable up to 16 AWG - 1.5mm ²

* 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 this product 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