

# Accessories

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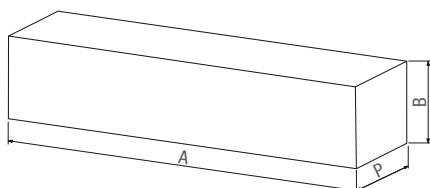
For automatic doors

## Infrared, touch-activated, volumetric and even remote controlled sensors



- Exclusive, distinguished style
- Releasing with customised key.
- One single opening and closing endstops adjustment when the automation is being installed.
- Simplified connection operations with one single three- or four-conductor cable.
- SELF-DIAGNOSING safety devices.
- Tested according to applicable rules and regulations.

## Dimensions



## Limits to use

MODEL	RANGE (m/ft)	MAX INSTALLATION HEIGHT (m/ft)
MF9011 - MF9111	7/22.96	
MR8334 - MR8370 - MR8390	-	2.5/8.2
MR8003	-	3/9.84
MR8104 - MR8106 - MR8107	-	4/13.12
MR8105	-	5/16.40
MR8202	-	4/13.12
MS9502	0.5/1.46	-
MR8401	0,6 - 2,4 / 1.96 - 7.87	2,3 - 4,6 / 7.54 - 15.09

● 12 - 24 V DC

## Dimensions (mm / in)

MODEL	A x B x P
MF9011 - MF9111	-
MR8334 - MR8370 - MR8390	340 - 700 - 900 x 43,5 x 47,5 / 13.38 - 27.55 - 35.43 x 1.71 x 1.84
MR8003	221 x 63 x 29,9 / 8.70 x 2.48 x 1.17
MR8104 - MR8106 - MR8107	120 x 80 x 50 / 4.72 - 3.14 - 1.96
MR8105	120 x 80 x 50 / 4.72 - 3.14 - 1.96
MR8202	262 x 55 x 44 / 10.31 - 2.16 - 1.73
MS9502	84 x 84 x 14 / 3.30 x 3.30 x 0.55
MR8401	177 x 50 x 45 / 6.96 x 1.96 x 1.77

● 12 - 24 V DC

## Technical features

Type	MF9011 - MF9111	MR8334 - MR8370 - MR8390	MR8003
Contact type and range	NC - 50 V DC - 0.1 A (resistive load)	NC - 60 V DC - 125 V AC - 1 A (resistive load)	NC - 50 V DC - 0,3 A (resistive load)
Power supply (V - 50/60 Hz)	24 AC - DC	12 AC - DC	12 AC - DC
Current draw (mA)	AC 125 MAX - DC 40 MAX	60 MAX	160 MAX (12 V)
Intervention time	25 ms	< 50 ms	< 0.3 S
Recovery time	200 ms	-	0.5 S
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 12 - 24 V DC

## Technical features

Type	MR8104 - MR8105 - MR8106 - MR8107	MR8202	MR8401	MS9502
Contact type and range	1 A (resistive load)	NC - 42 V AC - DC (resistive load)	1 A (a 30 V AC - DC)	1 A (resistive load)
Power supply (V - 50/60 Hz)	12 - 24 AC - DC	12 - 24 AC - DC	12 - 30 AC - DC	12 - 24 AC - DC
Current draw (mA)	-	1000	8	-
Intervention time (s)	0.5 ÷ 9 (ADJUSTABLE)	< 0.5	-	0.5
Recovery time	-	-	-	-
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 12 - 24 V DC

# The complete range



Code	Description
<b>Micro-photocells</b>	
001MF9011	Pair of flush-mounted, 24 V AC- DC infrared beam micro-photocells, with 7 m / 22.96 ft range, complete with shielded cable.
001MF9111	Double pair of flush-mounted, 24 V AC- DC infrared beam micro-photocells, with 7 m / 22.96 ft range, complete with shielded cable.
<b>Infrared safety radar with anti-masking.</b>	
001MR8334	Safety radar *L = 340 mm / 13.38 in with anti-masking function 12 - 24 V AC - DC. Maximum application height = 2.5 m / 8.2 ft - Detection beam diameter at 2 m / 6.56 ft = 0.13 m / 0.42 ft - Maximum detection depth = 0.53 m / 1.73 ft - Detection span adjustable from 0.7 to 2.5 m / 2.29 to 8.2 ft.
001MR8370	Safety radar *L = 700 mm / 27.55 in with anti-masking function 12 - 24 V AC - DC. Maximum application height = 2.5 m / 8.2 ft - Detection beam diameter at 2 m / 6.56 ft = 0.13 m / 0.42 ft - Maximum detection depth = 0.53 m / 1.73 ft - Detection span adjustable from 0.7 to 2.5 m / 2.29 to 8.2 ft.
001MR8390	Safety radar *L = 900 mm / 35.43 in with anti-masking function 12 - 24 V AC - DC. Maximum application height = 2.5 m / 8.2 ft - Detection beam diameter at 2 m / 6.56 ft = 0.13 m / 0.42 ft - Maximum detection depth = 0.53 m / 1.73 ft - Detection span adjustable from 0.7 to 2.5 m / 2.29 to 8.2 ft.
<b>Active infrared radar</b>	
001MR8003	Radar with adjustable field 12 – 24 V AC – DC. Maximum application height = 3 m / 9.84 ft Detection area: depth of field = 0.41 – 1.77 m / 16.14 – 69.68 in, length of field 3.1 m / 10.17 ft.
<b>Bidirectional radar for motion and presence detection</b>	
001MR8202	Radar with adjustable field 12 – 24 V AC – Dc. Maximum application height from 1.8 m to 4 m / 5.9 to 13.12 ft: Motion detection: -Detection mode: movement – bidirectional -Technology: hyper-frequency and microprocessor -Detection area: depth of field = 2 m / 6.56 ft - width of field 4 m / 13.12 ft. -Angle: from +15° to +50° in elevation (adjustable) Presence detection: -Detection mode: presence -Technology: focalised active infrared -Detection area: depth of field 0.35 m / 1.14 ft – width of field 2 m / 6,56 ft. -Angle: From -4° to +4° (adjustable)
<b>Digital movement radar</b>	
001MR8401	12 – 24 V AC- DC digital movement radar with adjustable field. Applicable height 2.3 – 4.6 m / 7.54 – 15.09 ft - Detection field: of up to 06 - 2.4 m / 1.96 - 7.87 ft.



# The complete range



Code	Description
<b>Volumetric microwave radars</b>	
001MR8104	Bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height = 4 m / 13.12 ft - Detection area equal to: - BROAD ANTENNA depth of field = 2 m / 6.56 ft and length of field 4 m / 13.12 ft - NARROW ANTENNA depth of field = 2.5 m / 8.20 ft and length of field 2 m / 6.56 ft Setting via 001MRT001 remote control.
001MR8105	Bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height = 5 m / 16.40 ft - Detection area equal to: depth of field = 2.5 m / 8.20 ft and width of field 4 m / 13.12 ft. Setting via 001MRT001 remote control.
001MR8106	Mono-directional - bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height 4 m / 13.12 ft - Detection area equal to: - BROAD ANTENNA depth of field = 2 m / 6.56 ft and length of field 4 m / 13.12 ft - NARROW ANTENNA depth of field = 2.5 m / 8.20 ft and length of field 2 m / 6.56 ft (in unidirectional mode it activates when with any approaching movement). Setting via 001MRT001 remote control.
001MR8107	Bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height 4 m / 13.12 ft - Detection area equal to: - Depth of field = 2 m / 6.56 ft and width of field 4 m / 13.12 ft - Depth of field 2.5 m / 8.20 ft and width of field 2 m / 6.56 ft Manual setting.
<b>Accessories for: 001MR8104 - 001MR8105 - 001MR8106</b>	
001MRT001	Remote control for volumetric microwave radars.
<b>Accessories for: 001MR8104 - 001MR8105 - 001MR8106 - 001MR8107</b>	
001MRWPC	Rain-shield box for volumetric microwave radars.
<b>Touch sensors</b>	
001MS9502	12 - 24 V AC – DC microwave reflecting, volumetric touch sensor. Field of detection from 0.1 to 0.5 m / 3.93 to 19.68 in.
<b>Sensitive pads</b>	
001MP8030	Sensitive floor pad 800 x 300 mm / 31.46 x 11.81 in.
001MP8060	Sensitive floor pad 800 x 600 mm/ 31.46 x 23.62 in.

