



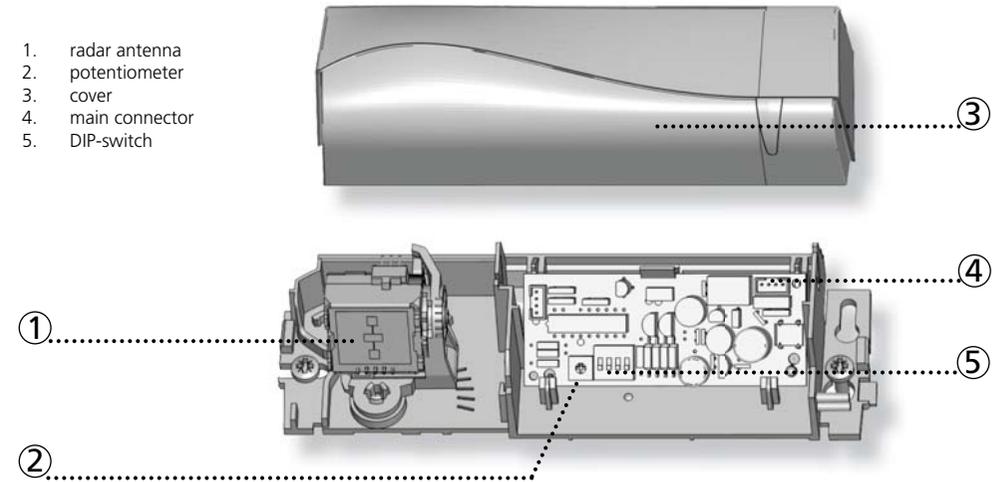
VIO-M1

Unidirectional opening sensor for automatic sliding doors

User's Guide for product version 0100 and higher
See product label for serial number

DESCRIPTION

1. radar antenna
2. potentiometer
3. cover
4. main connector
5. DIP-switch



TECHNICAL SPECIFICATIONS

Technology:	microwave doppler radar
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	< 20 dBm EIRP
Transmitter power density:	< 5 mW/cm ²
Detection mode:	motion
Min. detection speed:	5 cm/s (measured in sensor axis)
Supply voltage:	12 V to 24 V AC ±10%; 12 V to 24 V DC +30% / -10%
Mains frequency:	50 to 60 Hz
Max power consumption:	< 2 W
Output:	relay (free of potential change-over contact)
Max. contact voltage:	42 V AC/DC
Max. contact current:	1 A (resistive)
Max. switching power:	30 W (DC) / 60 VA (AC)
Mounting height:	from 1.8 m to 3 m
Degree of protection:	IP54
Temperature range:	from -20 °C to + 55 °C
Dimensions:	180 mm (L) x 58 mm (H) x 50 mm (W)
Tilt angles:	15° to 45° vertical; -15° to +15° lateral
Applicable directives:	R&TTE 1999/5/EC

Specifications are subject to changes without prior notice. Measured in specific conditions.



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BEA hereby declares that the VIO-M1 is in conformity with the basic requirements and the other relevant provisions of the directive 1999/5/EC.

Angleur, June 2013 Pierre Gardier, Authorized representative and responsible for technical documentation
The complete declaration of conformity is available on our website: www.bea-pedestrian.be

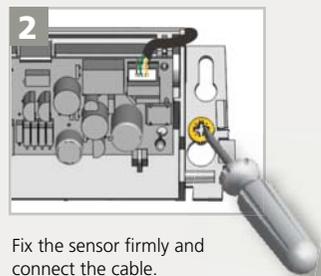
For EC countries: according to the directive 2002/96/EC for Waste Electrical and Electronic Equipment (WEEE)



1 MOUNTING & WIRING



Apply the mounting template. Drill 1 hole for the cable and pull it through. Drill 2 holes for the screws.



Fix the sensor firmly and connect the cable.

— 12-24 V
— COM
— NO-NC

2 ADJUSTMENTS

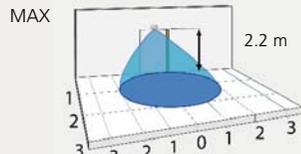
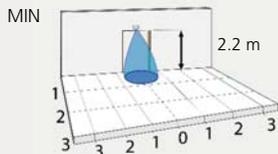
DIP-SWITCH



	DIP 1 DETECTION MODE	DIP 2 OUTPUT CONFIG.	DIP 3 PRM-MODE	DIP 4 IMMUNITY FILTER
ON	unidirectional	NC	for PRM* 	high
OFF	bidirectional	NO	normal	normal

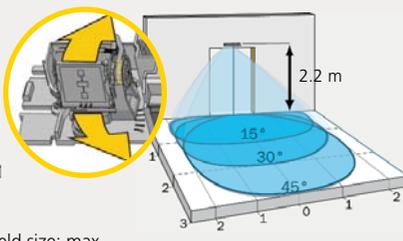
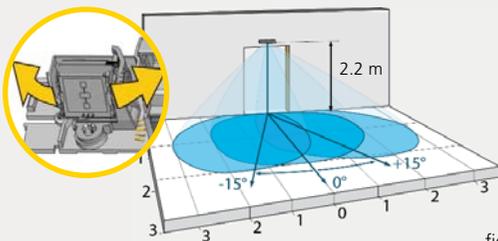
*PRM= persons with reduced mobility
DIP 1 needs to be ON for this function

FIELD SIZE



vertical angle: 30°

ANGLE



field size: max

TROUBLESHOOTING

	The door remains closed. The LED is OFF.	The sensor power is off.	<ol style="list-style-type: none"> 1 Check the wiring and the power supply.
	The door does not react as expected.	Improper output configuration on the sensor.	<ol style="list-style-type: none"> 1 Change the output configuration setting on each sensor connected to the door operator.
	The door closes and opens constantly.	The sensor is disturbed by the closing of the door or vibrations caused by the door motion.	<ol style="list-style-type: none"> 1 Make sure the sensor is fixed properly. 2 Make sure the detection mode is unidirectional. 3 Increase the antenna angle. 4 Increase the immunity filter. 5 Reduce the field size.
	The door opens for no apparent reason.	It rains and the sensor detects the motion of the rain drops. In highly reflective environments, the sensor detects objects outside of its detection field. In airlock vestibules, the sensor detects the movement of the opposite door.	<ol style="list-style-type: none"> 1 Make sure the detection mode is unidirectional. 2 Increase the immunity filter. 3 Use a rain accessory. <ol style="list-style-type: none"> 1 Change the antenna angle. 2 Decrease the field size. 3 Increase the immunity filter. <ol style="list-style-type: none"> 1 Change the antenna angle. 2 Increase the immunity filter.



SAFETY INSTRUCTIONS

- Test the good functioning of the installation before leaving the premises.
- The device cannot be used for purposes other than its intended use. All other uses cannot be guaranteed by the manufacturer of the sensor.
- The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety.
- The manufacturer of the sensor cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.
- Only trained and qualified personnel may install and setup the sensor.
- The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel.
- Avoid touching any electronic components, avoid vibrations, do not cover the sensor and avoid proximity to neon lamps or moving objects.
- The door control unit and the door cover profile must be correctly earthed.