

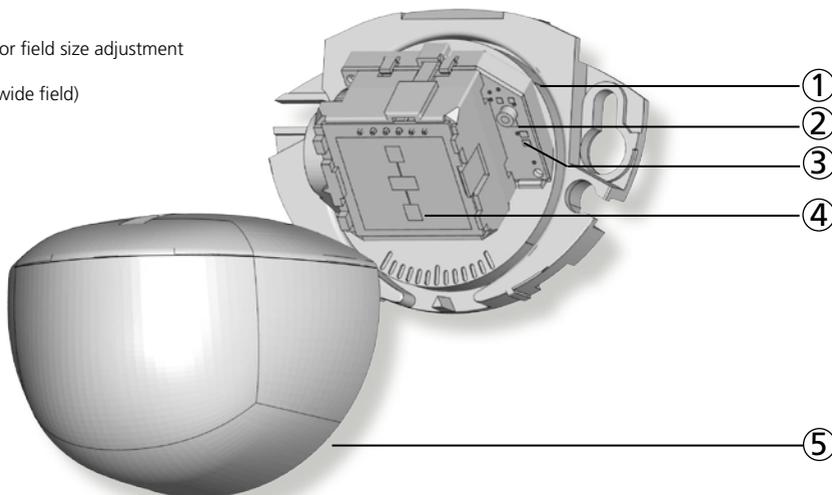
DM41

Bidirectional opening sensor for automatic doors

Other use of the device is outside the permitted purpose and can not be guaranteed by the manufacturer. The manufacturer cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.

DESCRIPTION

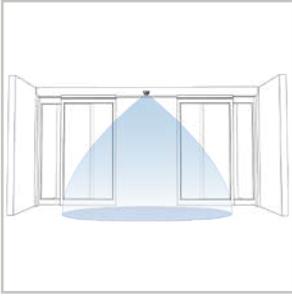
1. main connector
2. potentiometer for field size adjustment
3. LED
4. radar antenna (wide field)
5. cover



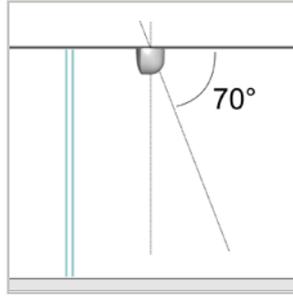
TECHNICAL SPECIFICATIONS

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 DC +30% / -10%
Mains frequency:	50 to 60 Hz
Max. power consumption:	< 2 W
Output:	solid-state-relay (free of potential change-over contact)
Max. contact current:	250 mA
Max. contact voltage:	50 V DC/V AC
Mounting height:	from 1.8 m to 3 m
Degree of protection:	IP54
Temperature range:	from -20 °C to + 55 °C
Dimensions:	80 mm (W) x 60 mm (H) x 50 mm (D)
Tilt angles:	0° to 90° vertical; -30° to +30° lateral
Material:	ABS & polycarbonate
Weight:	70 g
Cable length:	2.5 m
Norm conformity:	EN 300 440-2 V1.4.1; EN 301 489-1 V1.9.2; EN 301 489-3 V1.6.1.; EN 62311; EN 62479

APPLICATIONS



Wall mounting above sliding or revolving doors

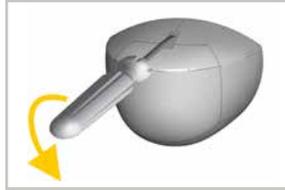


Ceiling mounting in front of sliding, revolving or swing doors (outside of the door motion range)

OPENING THE SENSOR



Before fixing

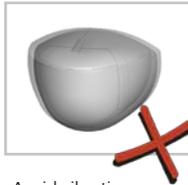


After fixing

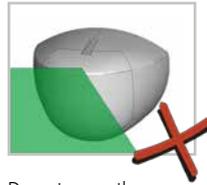
TIPS



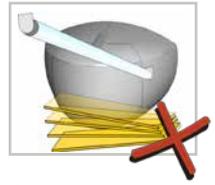
Do not touch electrical parts.



Avoid vibrations.

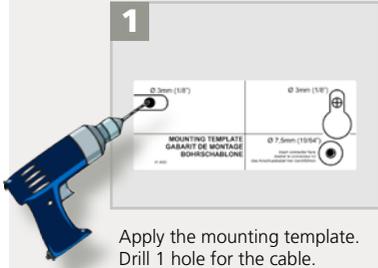


Do not cover the sensor.

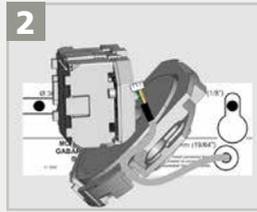


Avoid proximity to neon lamps or moving objects.

1 MOUNTING & WIRING

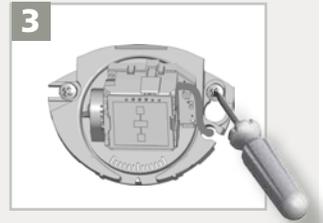


Apply the mounting template.
Drill 1 hole for the cable.
Drill 2 holes for the screws.



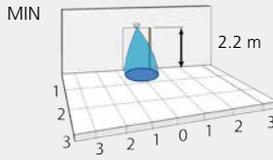
Connect the cable and insert it through the hole.
Connect the wires as follows:

-  BROWN - POWER SUPPLY -
-  GREEN - POWER SUPPLY +
-  WHITE - NO
-  YELLOW - COM

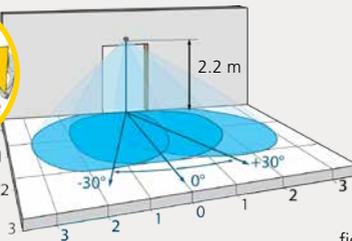
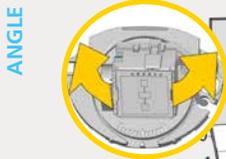
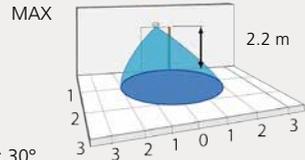


Fix the sensor firmly.

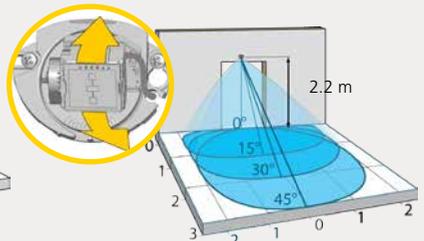
2 FIELD ADJUSTMENTS



vertical angle: 30°



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 Make sure the door is in automatic mode. 2 Make sure that the logic of the opening signal on the door is set to NO.
	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 Increase the antenna angle. 3 Reduce the field size.
	The door opens for no apparent reason.	It rains and the sensor detects the motion of the rain drops.	<ol style="list-style-type: none"> 1 Install the MRA (rain accessory).
In highly reflective environments, the sensor detects objects outside of its detection field.		<ol style="list-style-type: none"> 1 Change the antenna angle. 2 Decrease the field size. 	
In airlock vestibules, the sensor detects the movement of the opposite door.		<ol style="list-style-type: none"> 1 Change the antenna angle. 	



hereby declares that the DM41 is in conformity with the basic requirements and the other relevant provisions of the directives 2014/53/EU and 2011/65/EU.



The complete declaration of conformity is available on our website.

For EC countries: according to the directive 2012/19/EU for Waste Electrical and Electronic Equipment (WEEE)