

09/14 NN 058109 45532, Sensor for approach detection at industrial doors



In order to comply with the safety requirements of EN 60650-1 and UL508, the sensor must be operated with safety extra-low voltage (SELV).

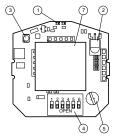
The total output power must not exceed 100 W under any circumstances. Use for example T2, 5A fuse to ensure compliance.

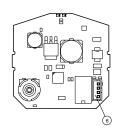
Delivery package

- Sensor
- 1 Connection cable
- 2 Screws for mounting (in the housing)
- Self-adhesive mounting template 1
- 1 Mounting instructions

Elements

- (1) LED (red/green)
- 2 IR receiver
- (3) IR transmitter
- DIP switches
- (5) Potentiometer
- 6 Connector
- (7)Antenna







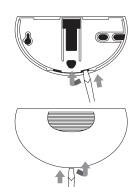
Components can be damaged by electrostatic energy! Do not touch any electronic components. Do not use metal tools.

Preparation

Insert the screwdriver into the opening provided from behind, carefully lift up the cover, fold upwards and remove.



Do not open the housing from the top.



Turning the antenna (to change the antenna characteristics)

Remove the antenna carefully using two fingers and insert in the antenna orientation for the required detection area.





Do not bend the contacts. Do not touch the surface of the antenna.

Antenna characteristics

A wide or narrow detection area can be set with the turnable antenna.

Installation height 2.20 m Detection area angle 30° Detection area size Max

Wide		Width: Depth:	4.50 m 2.00 m
Narrow		Width: Depth:	2.00 m 4.50 m

Installation information

- · Protect the sensor from rain*.
- · Avoid moving objects in the detection area (fans, plants, etc.).
- Do not cover the sensor. Mount the sensor only behind suitable covers.
- Moving drive components affect the sensor.
- · Avoid fluorescent lights in the detection area.
- The installation conditions may limit the programming options and the functions of the sensor.









DORMA recommends installing a weather cap for outdoor applications

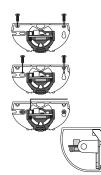
Accessories

Remote control Rain protection cover

Mounting

Attach the self-adhesive template and drill according to the hole pattern. Guide the cable through the opening provided. Fasten the baseplate using the screws (screws are in the housing). Can be mounted on the

ceiling using the rain protection cover.



Connecting the sensor

Connect the cable

to the terminal as follows:

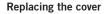
1 white = GND

2 12 - 36 V DC/ brown

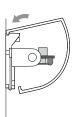
12 - 28 V AC

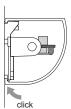
3 COM green

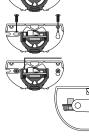




Attach the cover on the top and press down until it snaps into place.







Adjusting the inclination angle



Position can be modified in 5° increments.

Holding the sensor's baseplate by the sides, move it forward and position it as required.



Setting for an inclined detection area

Turn the PCB from -35° to +35° (horizontal movement) to adjust the detection range. The position can be modified in 2.5°.



Detection area size/Sensitivity

Change the size of the detection area using the potentiometer.



Detection capabilities Direction detection



No direction recognition



With forward direction recognition (towards the sensor)



With backward direction recognition (away from the sensor)

Cross-traffic suppression

Cross-traffic suppression allows passers-by to be partially suppressed.

The detection field is reduced when this option is set.



Little cross-traffic, (1 ... 5)





A lot of cross-traffic, (6 ... 10) door remains closed

Slow Motion



Even the smallest of movements are detected.

"Door closed" setting

Door opens even when extremely slow-moving objects approach.

"Door open" setting

The door closes if no movement is detected within the monitoring time.



Monitoring time/sensitivity:

3 seconds, decreasing



Monitoring time/sensitivity:

5 seconds, constant maximum sensitivity

Immunity (1 ... 7)

Immunity can be used to minimize interference such as rain, vibration and reflections.

LED status display

Color	indicator	Status		
G	Green	Device ready for operation		
R	Red	Detection active		
G	Green flashing	Command received		
R	Red flashing	Fault		
R/G	Red/green flashing	Initialisation after switching or		

Remove all objects from the door area that do not normally belong there.

Switch on the device and wait 10 s (the red/green LED will flash).

Test the settings by walking near the detection area.

The red LED lights up when an object is detected.

Swing door applications

The sensor can be used on swing doors.

Mount the sensor approx. 20 - 30 cm above the door edge to the sides of the door hinges (hinge side) and activate crosstraffic suppression. The closing door leaves are not detected as a result.

Additional functions





During the initialization period you can switch on the additional functions mode.

In order to do this, switch DIP switch 5. The green LED will flash. Set the additional function and reset DIP switch 5.

DIP switch 6 must be up (ON)

Remember the position of the potentiometer so that you can reset it if required.

Initialisation period



The hardware and software are initialised when the operating voltage is connected. Initialisation lasts 10 seconds.

The red/green LED will flash. Adjust the sensor. Check the settings by walking the detection area.

Additional functions can only be set during initialisation.

During potentiometer adjustment, the LED blinks alternately red/green. This allows you to count the adjusted setting and goes for all additional functions!

Slow motion detection area

Door open











- Switch DIP switch 5.
 - The green LED will flash.
- 2. Switch DIP switch 3.
- 3. Switch DIP switch 1.
- 4. Change the detection area size using the potentiometer.
- 5. Reset DIP switch 1.
- Reset DIP switch 3.
 - The settings are saved.
- Reset DIP switch 5.

Slow motion detection area

Door closed











- Switch DIP switch 5.
 - The green LED will flash.
- Switch DIP switch 3.
- Switch DIP switch 2.
- Change the detection area size using the potentiometer.
- Reset DIP switch 2.
- Reset DIP switch 3.
 - The settings are saved.
- Reset DIP switch 5.

Immunity



- Switch DIP switch 5.
 - The green LED will flash.
- 2. Switch DIP switch 2.
- Change the sensitivity of immunity using the potentiometer.
 - The LED displays the immunity setting.
- Reset DIP switch 2. 4.
 - The settings are saved.
- 5. Reset DIP switch 5.

Off-delay time (output)









- Switch DIP switch 5. • The green LED will flash.
- 2. Switch DIP switch 1.
- Change the relay off-delay time using the potentiometer. 3. The relay is then continually opened and closed at the adjusted off-delay time.
 - The LED changes from green to red accordingly.
- 4. Reset DIP switch 1.
 - The settings are saved.
- 5. Reset DIP switch 5.



Restoring original settings



- Switch DIP switch 5.
 - The green LED will flash.
- Switch DIP switch 4.
 - The red LED will flash.
- 3. Reset DIP switch 4.
 - The sensor is reset to the original settings and restarted.
- 4. Reset DIP switch 5 after the initialisation period has expired.

DIP switch settings (check the setting by walking the detection area)

				Slow Motion		Zusätz	lich empfol	nlene Einstellungen
		Direction of				Detection	Off-delay	
No.		detection	suppression	Door open	Door closed	area size	time	Application example
1	123456						1 s	Standard
							0.2 s	Vestibule
2							0.5 s	Pavement
							1 s	High mounting (optional, wide area)
3	888888							
4	888888							
5	888888				0			
6	888888						1.5 s	Supermarket (optional, wide area)
7	888888							
8	888808							
9	888888							
10	88888		→→					
11	888888		\leftrightarrow					
12	888888							
13	888888						2 s	Retirement home (optional, wide area)
14	888888							
15					0			
16	888888							

Relay contact

Relay contact when detection is active (NO)

Relay contact when detection is passive (NC)

Programming with the "Prosecure Remote Control"

DIP switch 6 on the sensor must be down (OFF) to enable access with remote control.

The sensor addresses are preset using DIP switches 1 to 4 (see table on next page).

In e sensor addresses are preser using bit switches I to those sensors must be set to different if several sensors are located within the range of the remote control, these sensors must be set to different in the sensor are located within the range of the remote control, these sensors must be set to different in the sensor are located within the range of the remote control, these sensors must be set to different in the sensor are located within the range of the remote control, these sensors must be set to different in the sensor are located within the range of the remote control, these sensors must be set to different in the sensor are located within the range of the remote control, these sensors must be set to different in the sensor are located within the range of the remote control, these sensors must be set to different in the sensor are located within the range of the remote control, the sensor in the sensor are located within the range of the remote control. addresses. The potentiometer and DIP switch 5 have no function when working with remote control. Before starting programming, read the remote control instructions.

The remote control must be directed accurately towards the sensor to establish a connection with the sensor.



Establishing a connection with the sensor

- Select the sensor type and confirm with \checkmark .
- 2. Select or search for an address and confirm with ✓.
- If the sensor is protected, enter the 4-digit code and confirm with <.
 - The sensor can now be programmed.

Programming the sensor

- Select the parameters and confirm with \checkmark .
- Read the setting and confirm with \checkmark .
 - The current setting is displayed.
- 3. Adjust the required setting and confirm with <.
- Return to parameter list with \boxtimes .
- Proceed in the same way with other parameters.

Secured access

The sensor can be protected with a code to prevent against unauthorised programming.

Activating access protection using a code

- Select the "Code" parameter and confirm with ✓. 1.
- 2. Select "Access with code" and confirm with ✓.
- 3. Enter 4-digit code.
- Repeat code.
 - The sensor is now protected.

Deactivating access protection using a code

- Establish a connection with the sensor. 1.
- 2 Select the "Code" parameter and confirm with ✓.
 - Select "Access without code" and confirm with ✓.
 - · Access protection is now deactivated.

Disable access

- Select the "Code" parameter and confirm with ✓. 1.
- Select "Disable access" and confirm with \checkmark .
 - · Access with the remote control is now no longer possible.

Remote control settings (check the setting by walking the detection area)

Menu Settings Description Sensitivity 1 - 16 1: Small detection area 16: Large detection area Off Detection mode No detection Stereo forward Detects movements in the direction of the sensor Stereo backward Detects movements away from the sensor Mono Detects both forward and backward movements Off-delay time Off Off: Relay is not operating 0.2 s, 0.5 s, 1 s, 0.2 s: Shortest off-delay time (output) 1.5 s, 2 s, 3 s, 4 s, 5 s 5.0 s: Longest off-delay time Relay contact closes on detection (NO) Relay contact NO contact NC contact Relay contact opens on detection (NC) Cross-traffic Off Off: No cross-traffic optimization 1 - 10 1: Low cross-traffic optimization suppression 10: High cross-traffic optimization Slow Motion Off Off: Slow motion deactivated Door open 1 s, 3 s, 5 s Monitoring time/sensitivity (LED red) Off Slow motion deactivated Slow Motion Door closed Slow motion activated On (LED green) Slow motion field 1 - 10 1: Small detection area Door open. 10: Large detection area Slow motion field 1 - 10 1: Small detection area Door closed 10: Large detection area 1 - 7 Immunity 1: Minimum immunity 7: Maximum immunity Standard profiles Profile 1 - 16 For settings see "DIP switch settings" table Reset to original settings Reset Code Access with code Access with remote control is only possible after a code is entered. Access is disabled. No remote control access Disable access possible. Access without code Access with remote control is possible at all times.

Exit programming mode Disconnect 1* - The sensor turns off the detection if no movement within the set time.

Setting the Address		
Sensor address	DIP switches	
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14	888888	
15		
16		

Troubleshooting

Troubleshooting				
Fault	Corrective action			
Door is detected.	Reduce the detection area size. Adjust the inclination angle.			
LED not lit up.	No power supply. Device defective.			
Sensor responds to very slight interference such as rain, vibration, reflections. Door opens for no apparent reason.	Increase immunity. Reduce the detection area size.			
Potentiometer does not respond.	Operation by remote control is activated. Push DIP switch 6 UP (ON).			
Remote control does not respond.	Operation with DIP switch and potentiometer is set. Push DIP switch 6 DOWN. Device is disabled (OFF). Switch the operating voltage off and on again. Sensor can be configured for 30 minutes without code. Check the remote control battery.			

Original settings

Function	Setting
DIP switches	Switch 1-5: top, 6: bottom
Detection field angle	15°
Direction of detection	Forward
Off-delay time (output)	1 s
Relay contact	Active
Immunity	1
Slow Motion	Off

Technical data

Operating principle Detection speed Approvals Detection field angle vertical horizontal Detection range at installation height of 2200 mm and 30° angle: Operating frequency Operating controls Operating voltage No-load current Power consumption Operation mode Signal output Switching ourrent Switching power Off-delay time (output) Off-delay time (output) Class of protection Class of protection Potention speed Min. 0.1 m/s Min. 0.1 m/s Min. 0.1 m/s Active Operating on the seed Operating on to seed Win. 0.1 m/s CE Min. 0.1 m/s Active Operating on 5° increments ± 30° in 2.5° increments Wide: 4500 x 2000 mm Wide: 4500 x 2000 mm Wide: 4500 x 2000 mm Vertical on the seed Wide: 4500 x 2000 mm Wide: 4500 x 2000 mm Vertical on the seed Wide: 4500 x 2000 mm Vertical on the seed on the seed of				
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Transmitting power < 20 dBm EIRP Dimensions without rain 123 mm x 65 mm x 57 mm	Housing material	Polycarbonate (PC), ABS		
Dimensions without rain 123 mm x 65 mm x 57 mm	Weight	130 g		
	Transmitting power	< 20 dBm EIRP		
protection cover (W x H x D)	Dimensions without rain	123 mm x 65 mm x 57 mm		
protection cover (** x ** x ** z)	protection cover (W x H x D)			

EC DECLARATION OF CONFORMITY

A complete version of the EC declaration of conformity is available at www.dorma.com.

DORMA GmbH + Co. KG DORMA Platz 1 58256 Ennepetal

declares that the products Prosecure Opti Motion Mono/Stereo and Prosecure Easy Motion Mono/Stereo comply with the provisions of the EC Directive(s) specified in the Appendix and that the standards and/or technical specifications referred to in the Appendix were applied.

Directive:

1999/5/EG Radio Equipment

Harmonized European standard, national rule:

EN 60950 - 1, EN 62311, EN 300 440-1, EN 300 440-2, EN 301 489-1, EN 301 489-3

The technical documentation is available from the Product Compliance Manager at: product.compliance@dorma.com

Änderungen vorbehalten Subject to change without notice