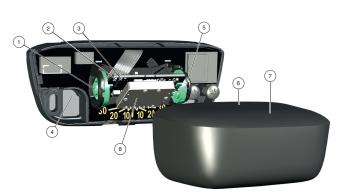
#### RaCon-D-NA

### **RaCon-D-NA**

#### Safety

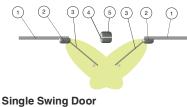
This device must be installed and maintained only by qualified, trained personnel. Observe the safety requirements of EN IEC 62368-1. Operate the sensor only with an SELV (ES1) supply with a limited output of up to 100 W (PS2). Use standard electrostatic discharge precautions when handling sensitive components.

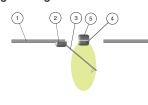
#### Description



#### Application

Installation Notes for Swing Door Double Swing Door





- Push button, left: -
- Push button and detection indication: LED green
- Push button indication: LED yellow
- Cable entry (default)
- Push button, right: +
- Top cable entry (optional breakout area)
- Cover

1

2

3

4

5

6

7

8

1

2

З

4

5

- Detection: LED green
- Wall RaCon-D (door hinge side)
- Door
- RaCon-D (center)
- RaCon-D

Mount the sensor (2) facing the opening door leaf directly above the hinge.

When mounting on the swing doors, the sensor can be either mounted on the door hinge side (2) or centrally above the door (4). Set the detection field (SET) mode to match the mounting position. For mounting on the door hinge side (2), set the sensor's rotational angle approximately to 30° looking towards the center of the swing door. There are no restrictions for the sensor (5) facing away from the door.

## **Removing the Cover**



After wall mounting



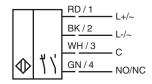
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#### RaCon-D-NA

#### Installation



### **Mechanical Adjustments**



Rotation angle in steps of 5°: -30° ... +30°



- 1. Insert the cable.
- 2. If necessary, break off the cable entry under the base.
- 3. Fasten the device with the provided screws.
- 4. Connect the cable to the terminal.



Inclination angle in steps of 5°: 0° (looking down) ... 90° (looking front)

#### Detection area size at mounting height 2.2 m

To change between wide and narrow configuration, rotate the antenna accordingly.



#### RaCon-D (wide) • Inclination angle: 60°

- Width: 4.5 m
- Depth: 2 m



RaCon-D (narrow) Inclination angle: 60°

- Width: 2 m
- Depth: 4 m

## **Technical Data**

General specifications	
Operating frequency	24.075 24.175 GHz K-Band
Transmitter radiated power (EIRP)	< 13 dBm
Electrical specifications	
Operating voltage	12 24 V AC/DC ; 50 60 Hz ; ± 10 %
No-load supply current	$\leq$ 35 mA at 24 V DC
Power consumption	$\leq$ 0.85 W $\leq$ 1 VA
Output	
Signal output	solid-state relay
Switching voltage	max. 28 V AC / 36 V DC
Switching current	max. 0.1 A AC / 0.1 A DC
Approvals and certificates	
FCC approval	<ul> <li>FCC ID: VECAP97</li> <li>This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:</li> <li>(1) This device may not cause harmful interference, and</li> <li>(2) This device must accept any interference received, including interference that may cause undesired operation.</li> </ul>
IC approval	IC ID: 10506A-AP97 This device complies with RSS-210 of Industry Canada. Operation is subject to the follo- wing two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Ambient conditions	
Operating temperature	-25 55 °C (-13 131 °F)
Mechanical specifications	
Degree of protection	IP54

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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#### RaCon-D-NA

#### Commissioning

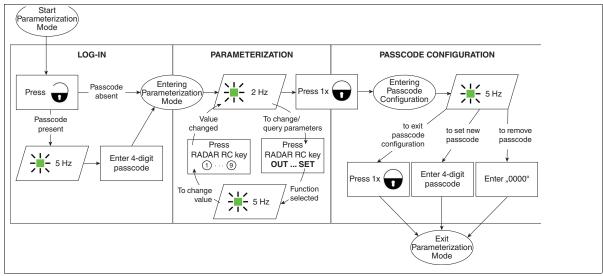
Note

When the operating voltage is applied, the sensor starts up. The yellow and green LED flash for approximately 4 s. The sensor is ready for operation.

- When the following settings apply, the direction detection will be automatically set to approaching only:
  - Cross-traffic suppression: ON
  - Swing door suppression: low / medium / high

#### **Commissioning via RADAR RC**

We recommend the use of the remote control, in order to comfortably parameterize the sensor.



When selecting the menu and setting the value, the status is indicated by the green LED:

- Function is selected: 5 Hz
- Selected parameter is valid: 2 Hz

For further information, see table "menu and values" below.

#### Action / Result

#### Sotting Detection Area Size

Setting Detection Area Size				
	1 = small detection area9 = large detection area			
desired value.	default: 7			

#### Action / Result

#### Querying function's value

To check the function's value, press the respective function key followed by "?" button. Value is indicated by the green and yellow LED flashes.

#### Resetting to factory settings

Press "SET" followed by "9". Sensor returns to factory settings.

#### Tip

Check the settings of the device by walking within range of the sensor.

#### **Commissioning via Push Button**

To set the detection area size and the value of the menu, use the push buttons "+" and "-."

Action / Result		LED green (mode)	LED yellow (value)	LED green (detection)	
Setting Detection	Area Size				
Press "+" OR "-"	The yellow LED indicates the value of the function. 1 = small detection area  9 = large detection area	= OFF	1x 7 9x 7 default: 7x 7	etection	

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#### RaCon-D-NA

Action / Result		LED green (mode)	LED yellow (value)		
Entering parameterization mode When entering the parameterization mode, the green LED for detection is disabled.					
Press "+" AND "-" (< 5 s)	The flashing green and yellow LED indicate that parameterization mode is activated.	1x 7x	1x 9x		
Setting the menu and setting the value					
Press "+" AND "-"	The next menu is selected. Pressing again after last menu is rea- ched, exits parameterization mode.	a-			
Press "+" OR "-"	If the maximum or minimum set value is reached, the yellow LED flashes.				

Menu and values			1	2	3	4	5	6	7	8	9
	RC Key ∏	Yellow Green	1x	2x -	3x 7	4x	5x	6x	7x/1	8x-1	9x - 1 \
Relay swit- ching type	OUT	1x 🕌	Relay n.o.	Relay n.c.	Closed	Open					
Hold time	TIME	2x 🕌	1.5 s	2 s	3 s	5 s	7 s	10 s	15 s	20 s	OPT
Immunity	IMM	3x 🕌	Low / OFF	High / ON							
Direction detection	DIR	4x	Approaching and receding	Approaching only	Approaching only, then bidirectional	Receding only	Receding only, then bidirectional				
Cross-traf- fic suppres- sion	SUPP	5x 🕂	OFF	ON							
Slow- motion mode	STEP	6x	OPT	Disabled	Enabled						
Mounting height	D/ OPER	7x 🕌	< 2.5 m	2.5 m 3.5 m	> 3.5 m						
Swing Door Suppres- sion	SET	8x 🕌	OFF	Low	Medium	High					

Bold = factory setting

OPT =

- Hold time OPT active: door closing time adjusted based on pedestrian's walking speed Slow-motion mode OPT active: door opening time adjusted based on pedestrian's walking speed Slow-motion mode OPT and hold time OPT active: door closes and opens optimally
- •

Action / Result		LED green (mode)	LED yellow (value)		
Exiting parameterization mode	Exiting parameterization mode				
Press "+" AND "-" beyond last menu.	The sensor saves last entered values and goes back to normal	= OFF	= OFF		
No action for 60 s	operation.				

Action / Result		LED green (mode)	LED yellow (value)	LED green (detection)			
Resetting to factor	Resetting to factory settings						
Press "+" AND "-" (> 5 s).	Sensor returns to factory settings.	. Top LEDs flash alternately, starting with green.					
Resetting passcod	e						
Press "-" (> 5 s).	The sensor password is reset.	Top LEDs flash alternately, starting with yellow.					
Enabling and disabling the Bluetooth® function (for RaCon-D-BLE only)							
Press "+" (> 5 s).	The sensor's Bluetooth® function is toggled from ON to OFF or OFF to ON depending on the current state.		ely, starting with green.				

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group Tel: +49 621 776-0 www.pepperl-fuchs.com E-Mail: info@de.pepperl-fuchs.com



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