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App User Manual

1 EN – User Manual

Contact

Sensotek GmbH Stuttgarter Straße 119 73061 Ebersbach/Fils Germany Phone: +49 7163 93926-0 E-mail: info@de.sensotek.com.de Website: www.sensotek.com

2 Download, start and connection

2.1 Downloading the Scanner Assistant app





JETZT BEI Google Play

2.2 Starting the app

- 1. Activate Bluetooth on the mobile end device.
- 2. Open the Scanner Assistant app.

2.3 Connecting the app with Radar scanner

NOTE

- The radar scanner must be connected to the power supply, otherwise no device will be displayed.
- The distance between the radar scanner and the app must not exceed 10 centimetres, so as to allow the radar scanner to be detected.
- Once a connection has been established, the distance to the radar scanner can be increased to up to ten metres. Provided that the connection is not restricted by obstacles.

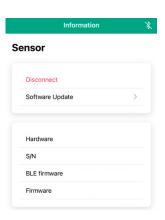
í	Connect	🊱 EN 🗸	Tap on the serial number of the radar scanner.
Found d	evices	S_{1}^{1}	
R3S-8 00	00000018	>	

> When setting the radar scanner for the first time or applying a new setting, *Initial setup* appears upon starting



Disconnect	
Settings	~
▷ Start assistant	
Load configuration	

> If the radar scanner is already set, Information appears upon starting.



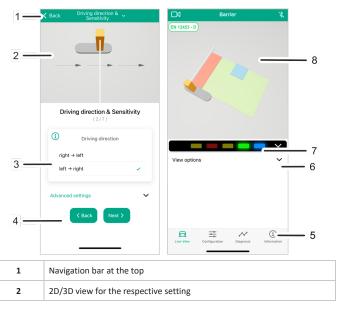
3 User interface

3.1 Structure of the user interface

The structure of the user interface depends on the window you are in: Setting or Live-View

Note:

The illustrations of the user interfaces are only examples and may differ depending on the individual application.





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3	Settings for the parameters
4	Buttons for navigation and confirmation
5	Navigation bar at the bottom
6	Live-View settings
7	Display of the LED signals
8	Live 2D/3D view

Navigation bars

The buttons in the navigation bars have the following functions:

Live-View	Opens the Live-View of the application
A Diagnosis	Opens the diagnosis for error output and measurement data If there is an error, a red circle with a number also appears on the button
Configuration	Opens the settings
(i) Information	Opens the information about the sensor and the app

3.1.1 Controls

Next >	Opens the next parameter settings window
< Back	Opens the previous parameter settings window
Apply	Accepts all settings or input changes
Delete	Deletes all inputs in the blanking area
í	Provides additional information on the setting option or function
D	Provides information on compliance with the standard specifications for EN 12453 Protection Level D
Ø	Value does not comply with the standard specifications for EN 12453 Protection Level D
(EN 12453 - D)	Opens the checklist to check whether all settings are compliant with EN 12453 Protection Level D
EN 12433-D	Standard specifications for EN 12453 Protection Level D not complied with

Chang	ges the view in Live-View (2D/3D)
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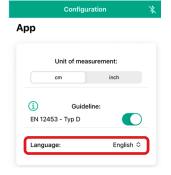
3.2 Setting the language

There are two ways to set the language:

- Before connecting via the navigation bar at the top



After connecting via Configuration



3.3 Entering the values

Various options are available for entering the values. Note:

The minimum and maximum value is defined for each setting.

- Input via the keyboard

Click in the number or field > Keyboard input opens, enter the value



Input via plus/minus sign
 Click on the plus or minus sign > Increase or reduce value

Length (cm)	
300	
	Ľ

- Input via the slide switch

Move the slide switch to the right or left > Increase or reduce value. This option is only recommended for rough adjustment or for increasing/reducing values by increments.

Lengt	h (cm)	
300		
_		 +

3.4 Live-View (display and navigation)

Display of the values in the Live-View

The input of a value or change to a value in the respective setting is simultaneously visualised in the Live-View.

Navigation in the Live-View

Rotate: Moving your finger to the left or right rotates the view

Zoom: Moving two fingers towards each other or away from each other reduces or enlarges the view



4

Note:

4.1

1

2.

3.

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Radarscanner R3S-8

Several settings can then be applied for the barrier system and for the radar 6. Bacl Setting the radar scanner scanner. The respective setting or change is visible in the Live-View. Standard values are specified for each setting that can be adapted to the The radar scanner can be set using the setup assistant. respective barrier situation. The "Initial setup" window appears automatically when the radar scanner is set for the Each settings page ends with first time or the specifications have been reset. NOTE: Additional settings are possible for some functions. (see "Advanced settings", page 4) Standard configuration 1. Settings for the barrier boom Click the "Start assistant" Positioning (position of the barrier button. boom) Initial setup If there is a file in which the Height (distance to the road appropriate settings have surface) already been configured: Click Length (distance between the end the "Load configuration" of the barrier boom and the sensor) button. 2. Driving direction & Sensitivity - Driving direction (direction of the incoming vehicle or pedestrian) You can set up the sensor manually using 3. Sensor position the assistant or by loading a configuration - Height above the road (distance between the sensor and the road surface) Disconnect Distance to the barrier boom 7. Settings ~ Mounting angle (determines the angle at which the radar scanner is aligned with the barrier boom) > Start assistant 8. 4. Settings for the safety area Next > - Length 9. - Width Enter password Settings for the opening area 5. Note: The numeric password Please enter an 8-digit numeric password (0-9): can be freely selected. Length - Width Note: When the password is set to Object detection (determines '00000000', no password request will appear while connecting to the sensor. whether vehicles or pedestrians are to be detected or blanked by the radar scanner) Cross-traffic suppression If no password is required, a (Note for Live-View: Arrows No password request indicate the direction in which tick must be put here. Password will be set to '00000000 object detection is possible) Direction of movement (determines Save input. whether approaching and/or Save password

Save environment in the radar scanner. > Click the "Start teach-in" button. Observe the information before teach-in! Teach-in environment (6/7)Current Status: \otimes Environment not teached-in Note: Be sure there are only objects in the sensors viewing area which are permanently in the barrier environment The barrier must be open during the teach-in Status changes to "teached-in" Current Status: Environment was teached-in Advanced configurations These settings should only be applied for special barrier systems If the barrier boom has an - Teach-in barrier boom additional crush barrier/curtain, for example, it must be teached-in. - Drive-through detection Contact type for signal output Blanking areas To avoid false detections: up to three blanking areas can be set Behaviour of the outputs when Error handling errors are present - LED settings LEDs set to permanently on/off or automatic

10.

Save settings



departing objects are to be

detected)

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Settings are saved in the radar scanner.
 The "Configuration" window appears.

For visualisation of the settings on the barrier system, click on $${\scriptstyle \rm Live-View}$$ in the lower navigation bar.

4.2 Advanced settings

"Advanced settings" are possible for some functions.

Standard values are specified that can be adapted to the respective barrier situation. Changes to the settings should only be made by experienced specialists.

Driving direction & Sensitivity

- Sensitivity (for the detection of vehicles)

Safety area

- Distance from the safety area to the sensor
- Distance from the sensor to the barrier boom
- Object detection
 CAUTION: Risk of injury
 Selection of "All also pedestrians".
 This setting should not be changed for the safety area.
- Contact type for the output
- Triggering of the safety area

Opening area

- Distance from the opening area to the sensor
- Distance from the sensor to the barrier boom
- Blanking static objects (enables objects that do not move for a long time to be blanked)
- Contact type for the output
- Signal type:

Continuous signal – As long as an object is in the opening area, a continuous pulse is triggered.

Single pulse – As long as an object is in the opening area, a single pulse is triggered

 $\it Repeated \ pulse$ – As long as an object is in the opening area, the pulse is triggered every five seconds

 Testing (setting option as to whether the opening area is also to be triggered)

4.3 Checking settings according to EN 12453

If the radar scanner is to fulfil the requirements of EN 12453 Protection Level D, the required settings may be checked.

1.	Live-View Configuration	Diagnosis Information	Click "Configuration".
2.	Configurat	tion 🖹	Click on the "EN 12453-D"
	Sensor EN 12453 - D		button. Note: The checklist can also

 The checklist opens with all the settings required in accordance with EN 12453 Protection Level D.
 Settings that fulfil the requirements have a green tick.
 Settings that do not fulfil the requirements have a red cross.

be opened using the button

Subsequent adjustments can be

in the Live-View.

made by clicking on the

respective setting.

S	Sensor	
	Height	\oslash
	Distance to Parrier boom	\otimes

5 Applying Scanner Assistant

The functionality of the radar scanner can be tracked on the app via the virtual barrier system.

	*	\sim	i	Click "Live-View"
Live-View	Configuration	Diagnosis	Information	

> The Live-View of the virtual barrier system opens.

-			*	
EN 12453 - D		/ 	_ , ,	
View option	s		- -	The following setting options can be found under the view options:
View option	s		~	
View option	s ·		~	found under the view options: - Sensor detection area
View option	s		~	 found under the view options: Sensor detection area (represented by arrows) Sensor distance marks (represented by horizontal and

Display in the Live-View

- Object detection

If one or more objects have been detected in the detection area, they are represented with coloured squares.

Colour	Explanation
Yellow	Detected object: No vehicle
Light grey	Detected object: Vehicle (fast detection)



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Dark grey	Detected object: Vehicle (precise detection)	6 "Configuration" overview	6.2 Resetting settings
Blue	Blanking area	6.1 Adjusting settings	1. 🛱 ≢ 📈 🛈
	the settings for detection areas	Settings on the sensor and the app can be adjusted via the "Configuration" page.	Live-View Configuration Diagnosis Information
Display values 1.	Click on an area.	1. Image: Configuration Image: Configuration Click "Configuration". > Configuration Image: Configuration All settings for the sensor can be individually adjusted here. Sensor EN 12453 - D Start setup assistant >	2. Configuration Load configuration Save configuration Change password Factory reset
Darste	Contraction of two of t	Barrier boom>Driving direction & Sensitivity>Sensor configuration>Safety area>Opening area>Teach-in environment>Advanced configurations>	 6.3 Changing the password 1. Image: Configuration Configuration Load configuration Save confi
- Display of	the settings for the blanking area	A configuration can also be saved, or a saved configuration	
1.	Click on the blue area.	Load configuration can be loaded. App	Change password Factory reset
*		Unit of measurement: All settings for the app can be adjusted here.	password can be assigned here.6.4 Diagnosis
	Bianting area Marght: 2000 Well: 7000 Bianting to the survey 2000 Bianting to the survey 2000 Bian	Image: Image: English ≎	Errors and measurement data are displayed via the diagnosis. Click "Diagnosis". Live-View Configuration Diagnosis" If there is an error, a red circle with the number of errors appears next to the diagnosis.
varstellungsop	ptionen		> All errors are listed.
			Error 34 Orientation error

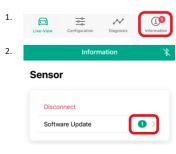


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7 Software update

NOTE

- The current configuration is automatically saved when the update is started and automatically reloaded after the update has finished.



3. There are two ways to perform a software update:



Installed firmware

BLE firmware	9
Firmware	

Available firmware

Choose file

b.

Official versions MWD S V01.14(V01.09).vtmc ④ Manual Update

Download update directly and install

Manual update with a file. Note: The software file must be on the smartphone.

Select and install file



