

Smith & Co.

ITS-AX2: Manual - English

mm Watt 79 GHz Radar – PRESENT detector

Option: Mounting bracket



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Dear customer,

May we thank you for purchasing our unique Radar AX2-PRESENT detector. This sensor working with the mm Watt 79Ghz radar technology which make the radar a unique **“PRESENT”** detector.

This radar sensor has a CE certificate but is not a safety sensor.

This radar detects every object (car/truck-person) that is in the detection field (Moving or not moving).

Via a mobile app, which can be requested by Google play (Android) or by App Store (Apple). All detection configurations can be set in a wireless way (bluetooth) via the mobile app!

This unique **"Presence"** radar AX2 can be used as an anti-fall (mode1) by automatic barriers or as a detector (contactless without using reflectors) (mode2) for opening or closing automatic barriers, (high-speed) industrial gates and many other applications. (dock stations – frigo rooms ...)

To ensure the best performance of the sensor, we recommended you to strictly follow the installation instructions or to contact us if you have any questions.

Thank you in advance,

Kind regards,

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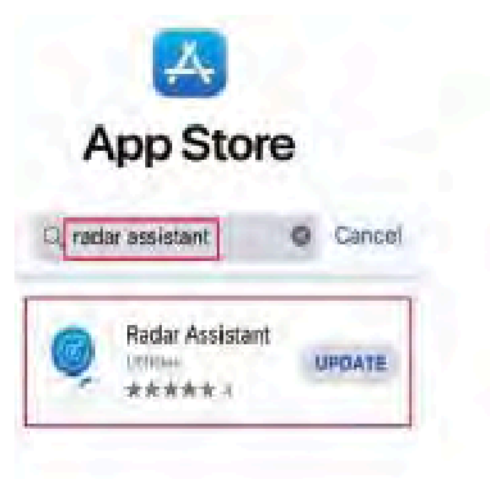
Mr. Michael Ib
Tel.: +45 40142099

Mannerupvej 48
4320 Lejre
Danmark

Get the app on your smartphone

a) Android: Google play: ISensor

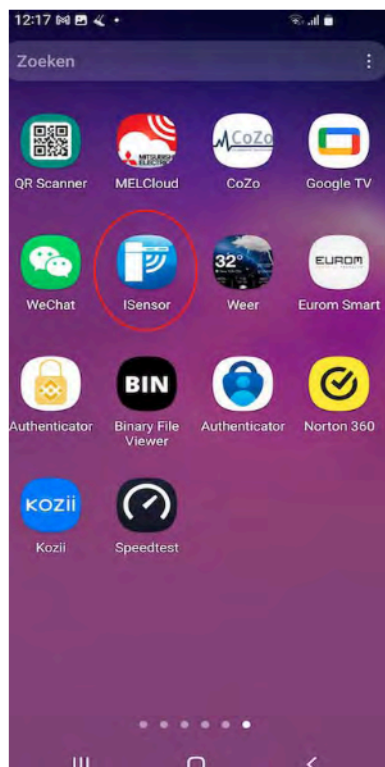
b) Apple: App Store:
Radar assistant



Use the password : 88888888

user password: **88888888**

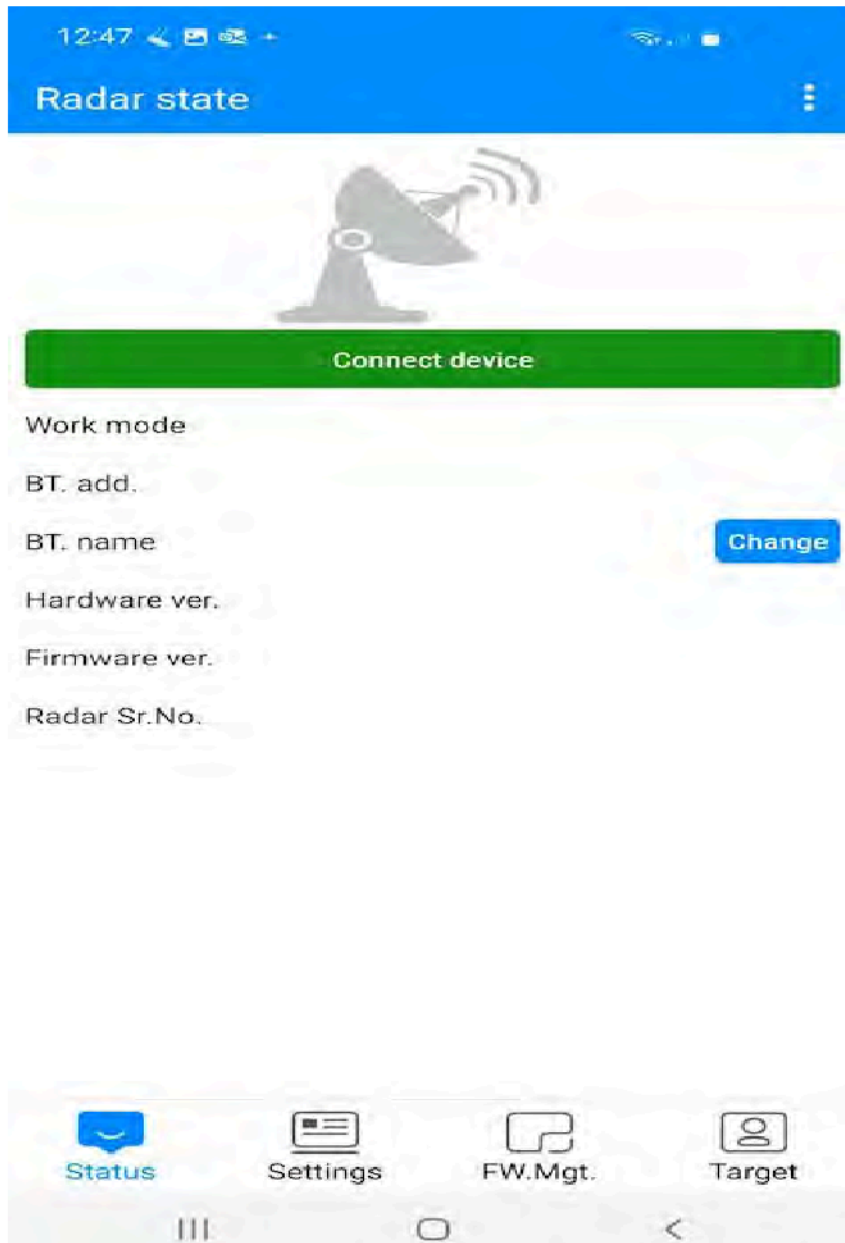
password can be changed with other 8 digits, only numbers acceptable.



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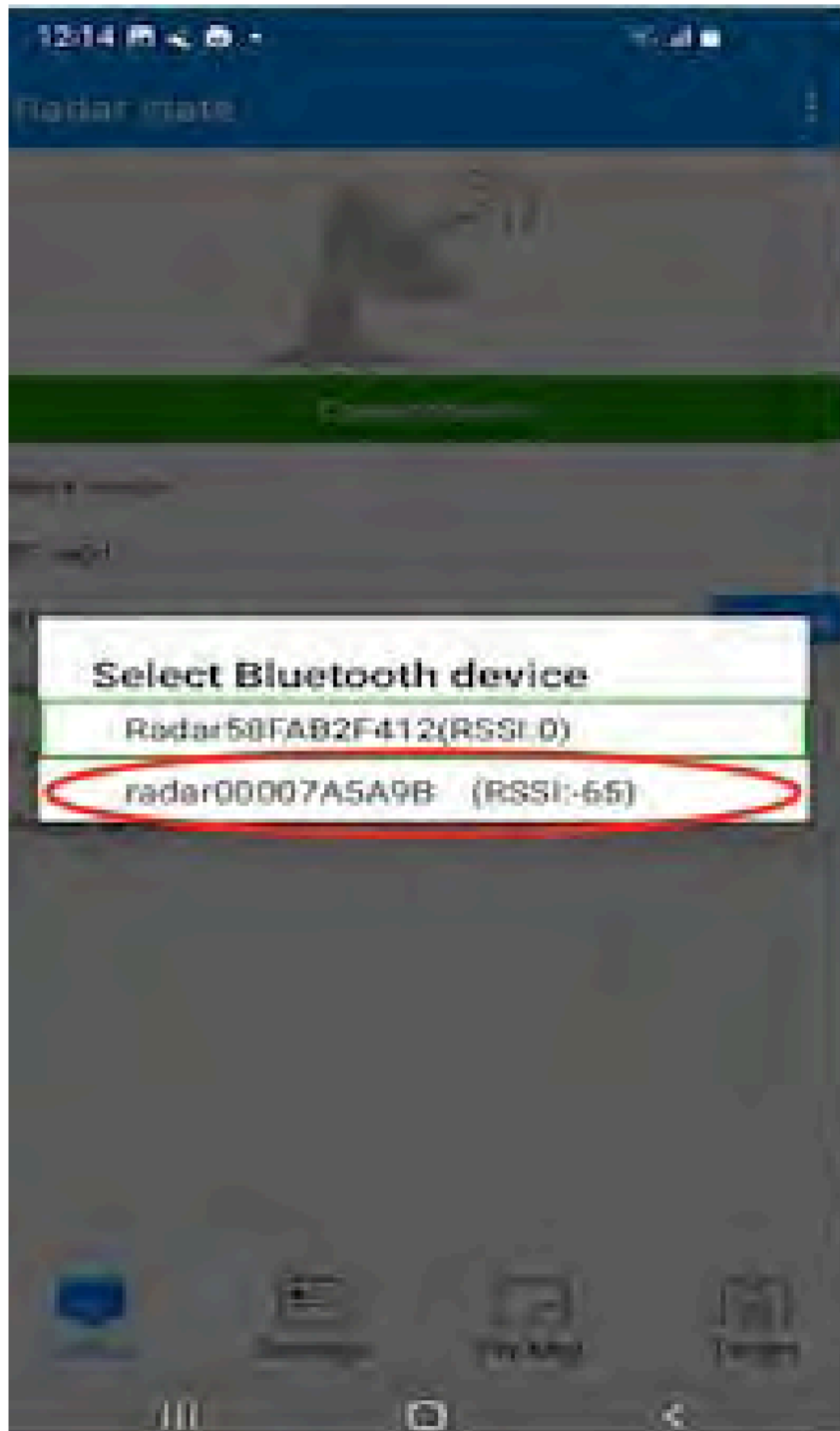
1) Connect to your radar AX2

- . press on your app, nearly your radar AX2
- . Then press the green "Connect device " button



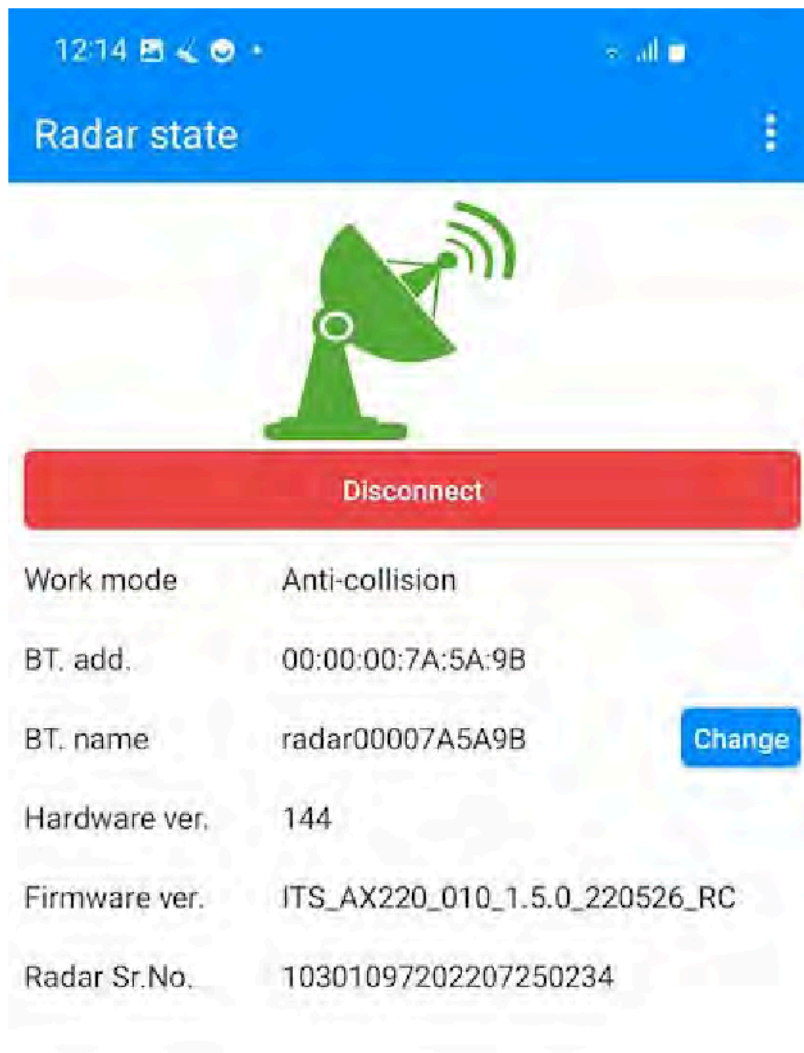
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2) Press the bottom, where app connects to the radar
(Place with red circled)



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3) Radar connects to your smartphone app (red Disconnect)
(It will stay red as long as you are connected to the the radar)



4) On the two possible

screen you have modes that you

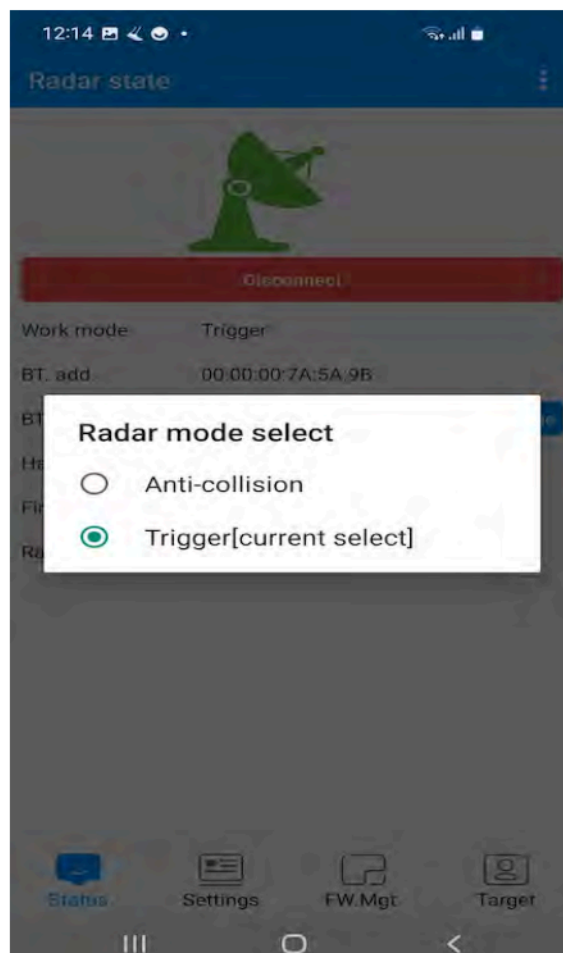
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can set:

Mode 1) Anti-collision = anti-fall = under protection by the automatic barrier to ensure that the barrier does not fall on a person or a vehicle/truck

OR

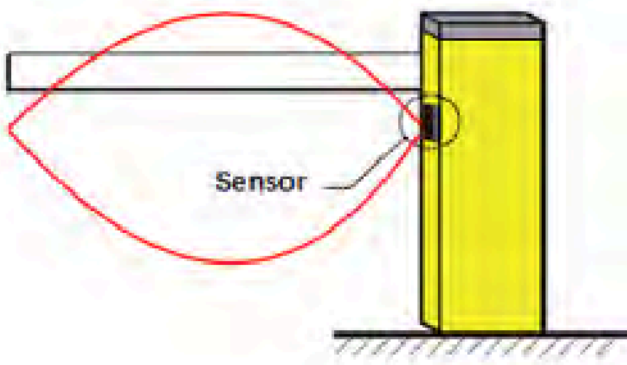
**Mode 2): Triggering = as detector for opening or closing an automatic barrier or an industrial (speed) gate.
Is an alternative for inductive loops or infrared photocells with or without reflectors or ultrasonic sensors**



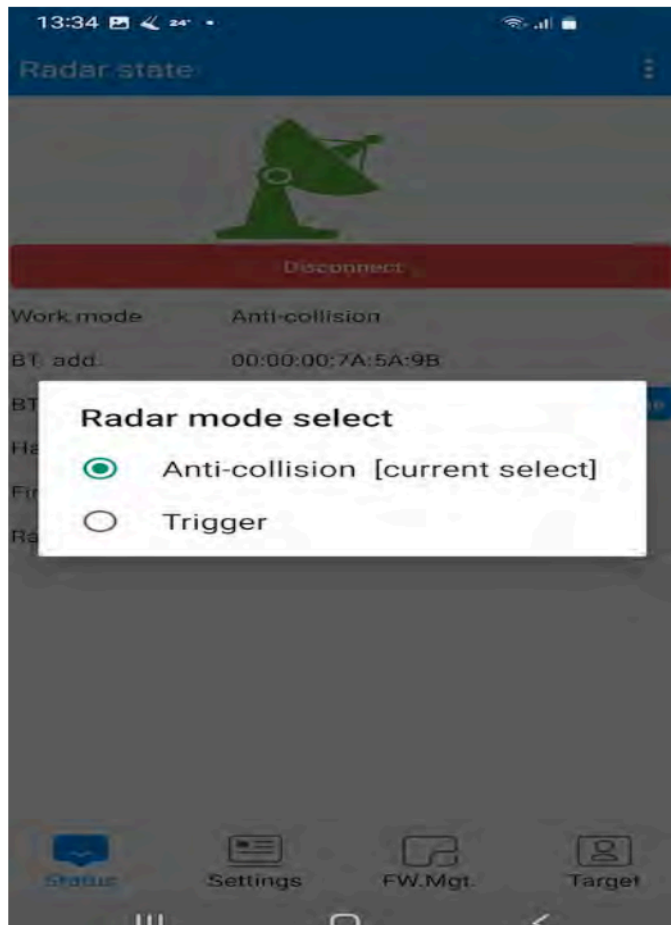
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A) You choose Mode 1:

Anticollision = anti-fall = under protection of an automatic barrier to ensure that the barrier does not fall on a person or a vehicle/truck



. press on Anti-collision



A.1)

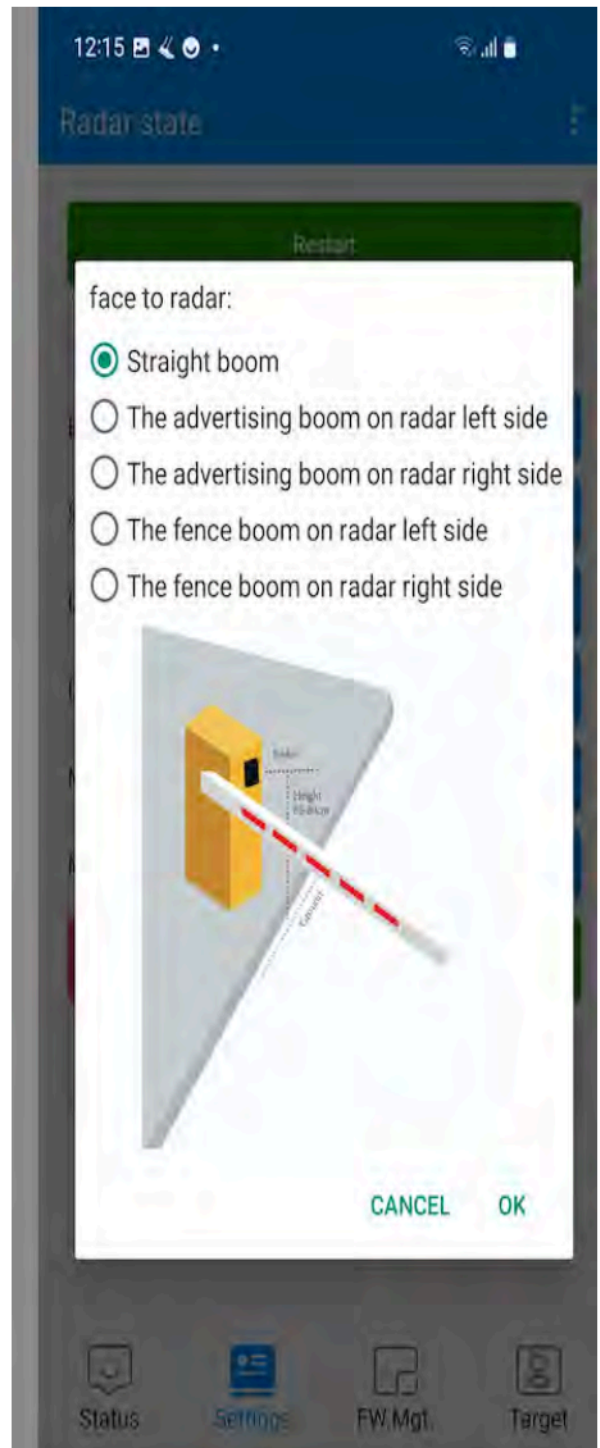
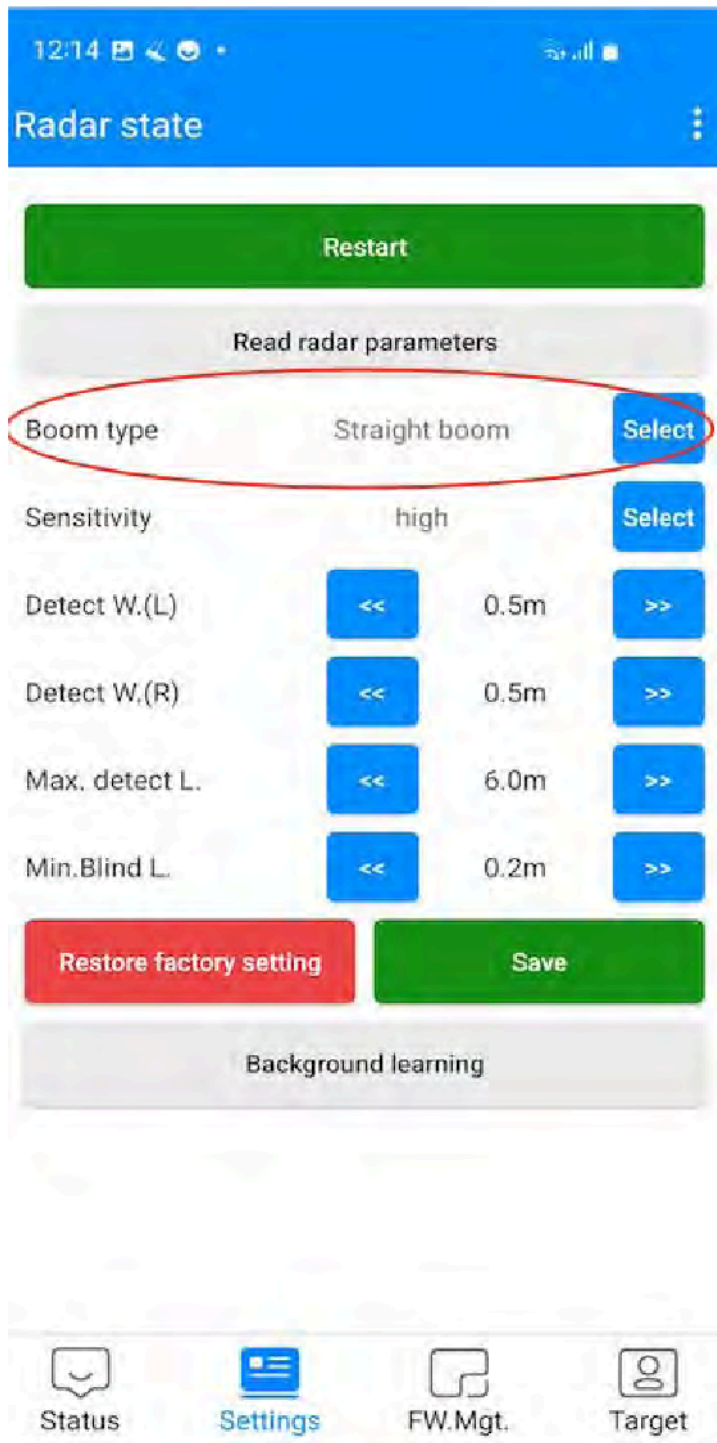
Choose which automatic

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barrier you want to use

. press on **Select**: choose your type of automatic barrier

. press on **ok**



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A.2) Make a choice whether or not to detect: 1/2persons

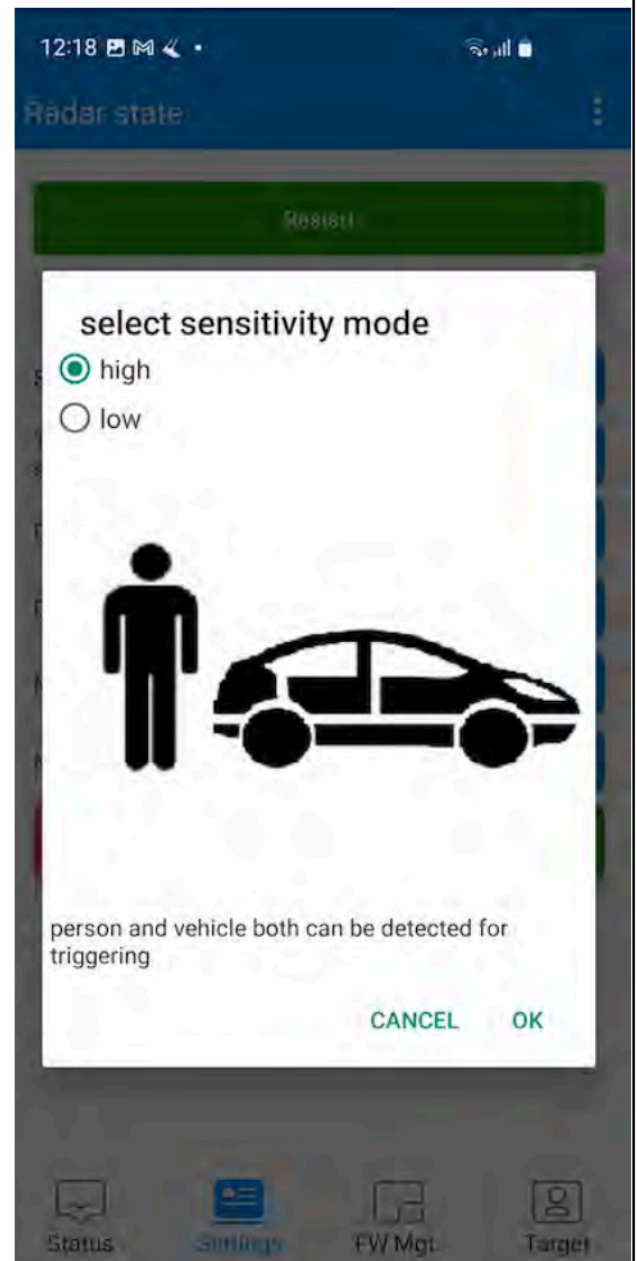
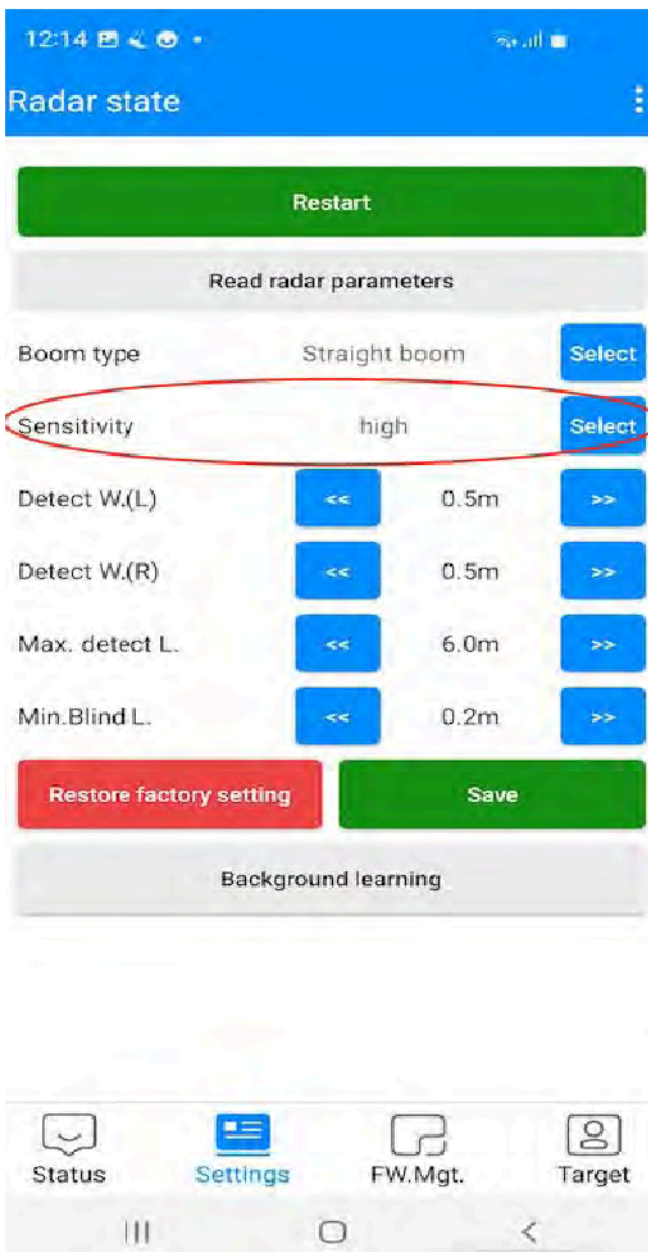
Press on **Select** – Sensivity

. High sensivity: 1/2 persons + car/truck

OR

. Low sensivity: only car

Press on **ok**



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A.3) Choose the desired detection field:

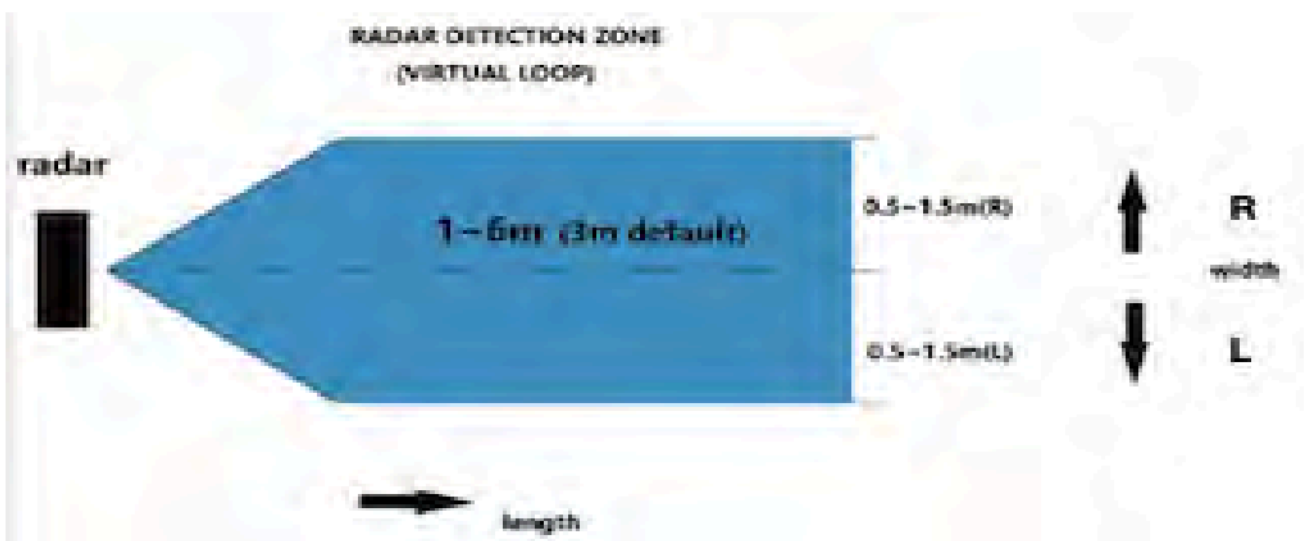
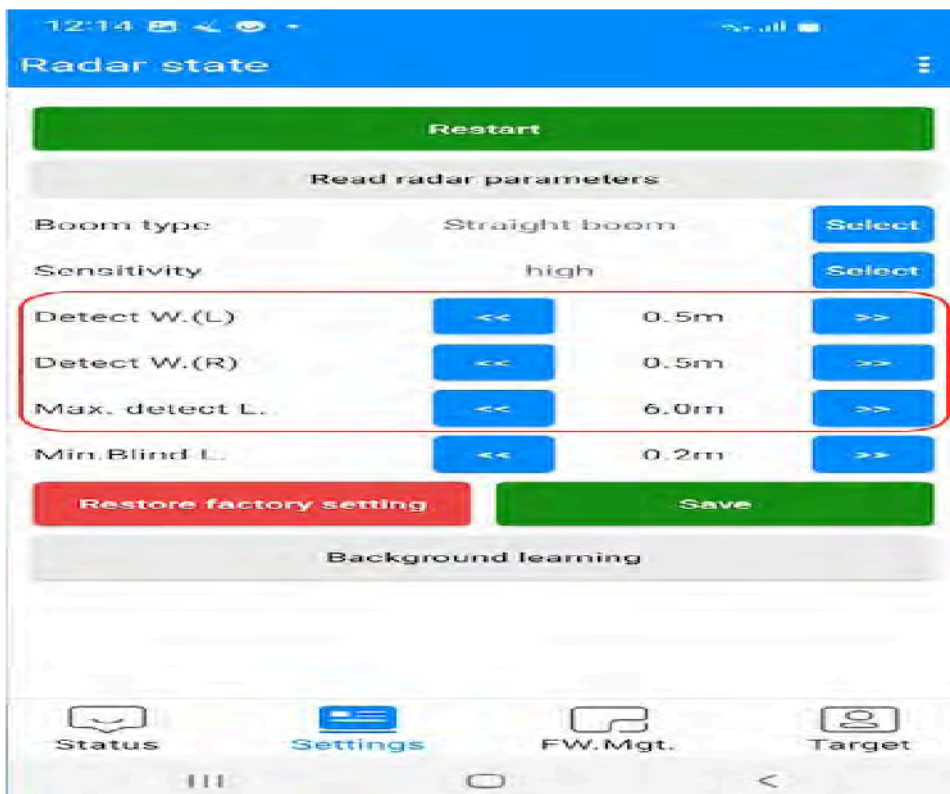
Position you in the front of the radar AX2:

Detection left (L): ts 0,5m...1,5m

Right detection (R): ts 0,5m...1,5m

Forward detection: ts 1.9....6.0m

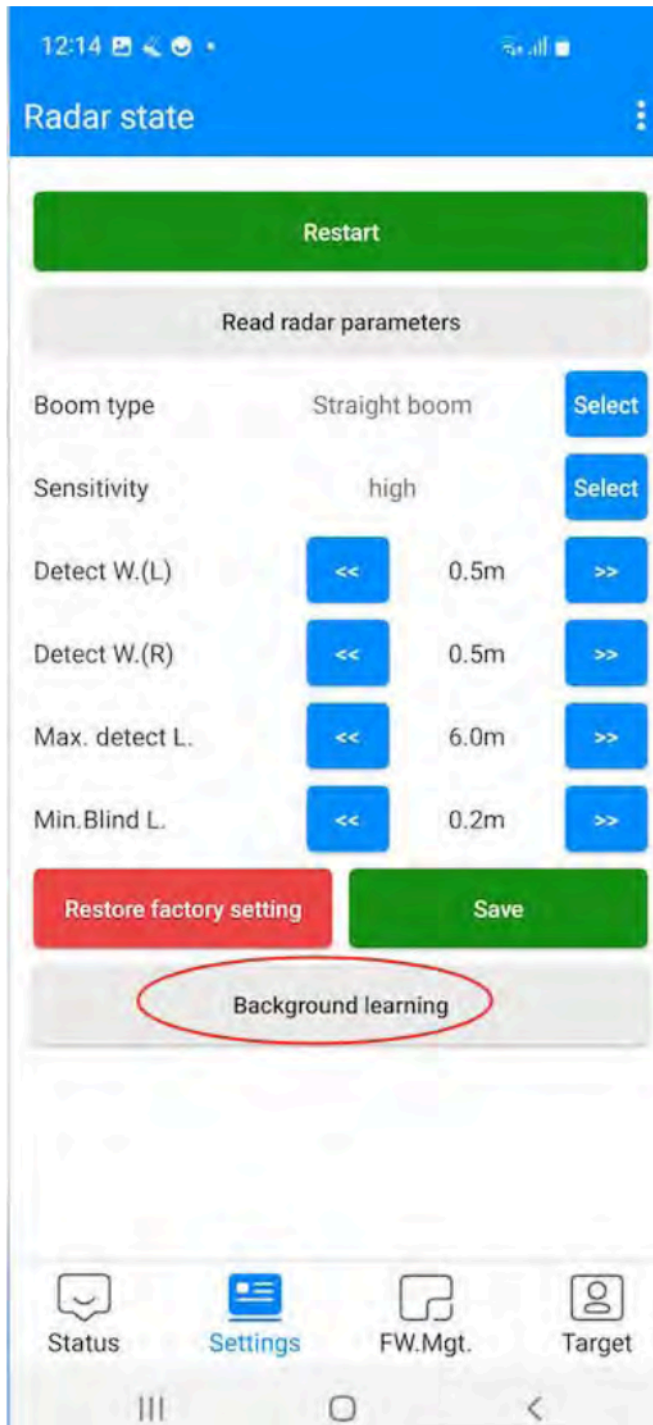
Press on SAFE



A.4) Background suppression:

. automatic barrier must be open - barrier up!

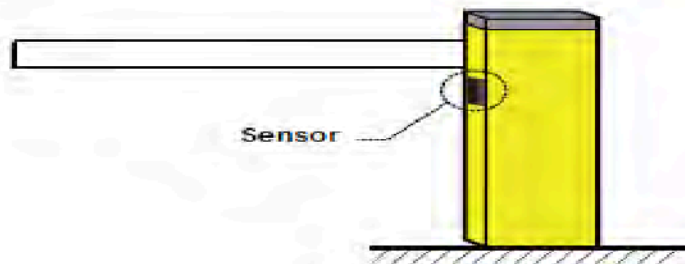
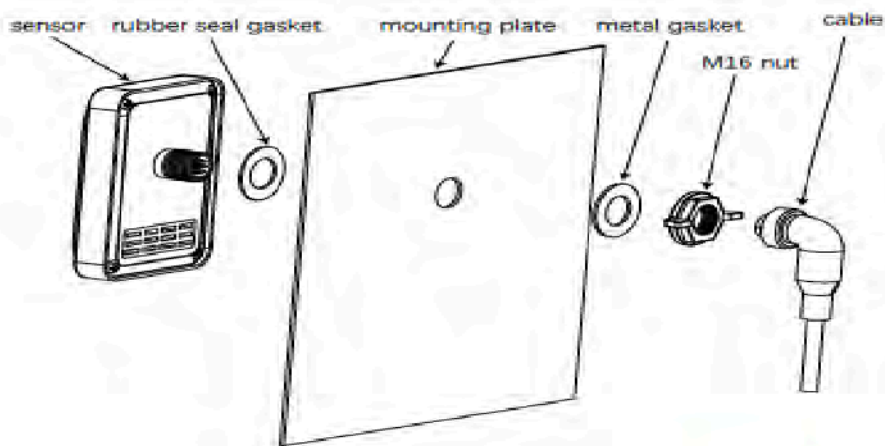
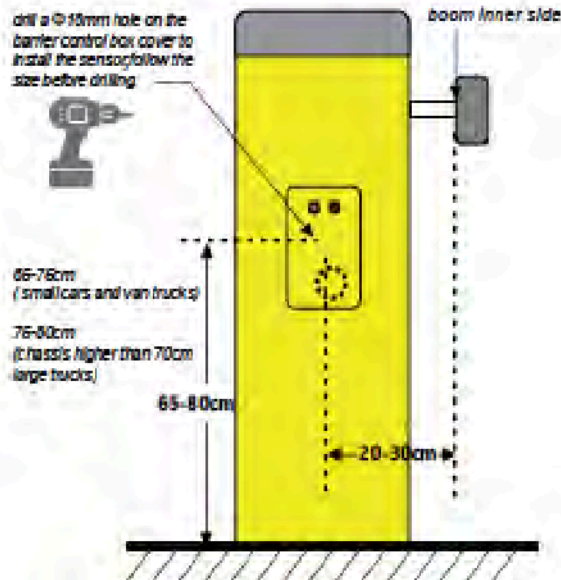
- . no object may be present in the detection field
- . **press on** background learning



Mounting of the radar AX2 on an automatic barrier

Setting the radar in Mode 1

Step1. installation position(for anti-fall use)



Please note following

the

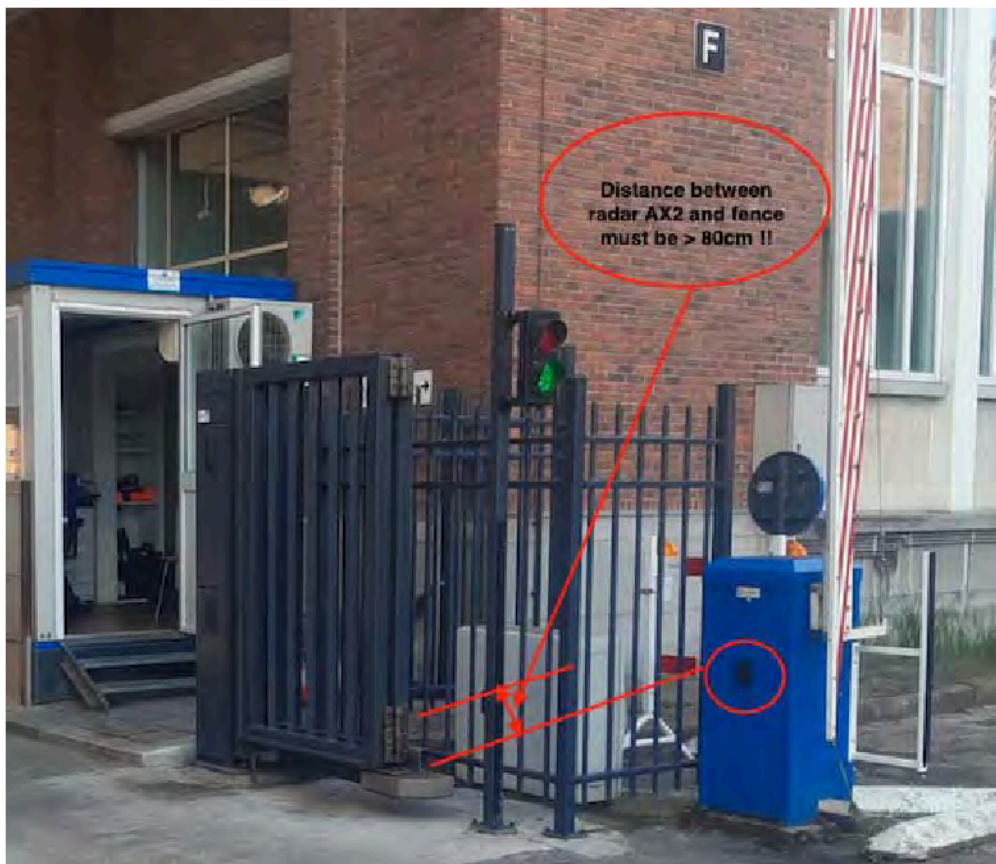
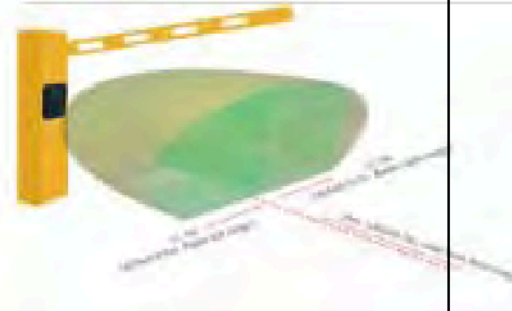
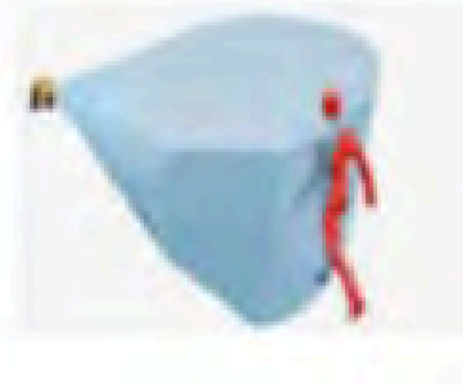
information when fitting the AX2 radar:

The detection field of the radar should be seen as an inflated balloon.

To ensure the correct functioning of the AX2 radar, the radar must be mounted
- in an open surface

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- the radar sensor must be mounted at least 80 cm from every wall - fence - gate - ceiling ... etc..

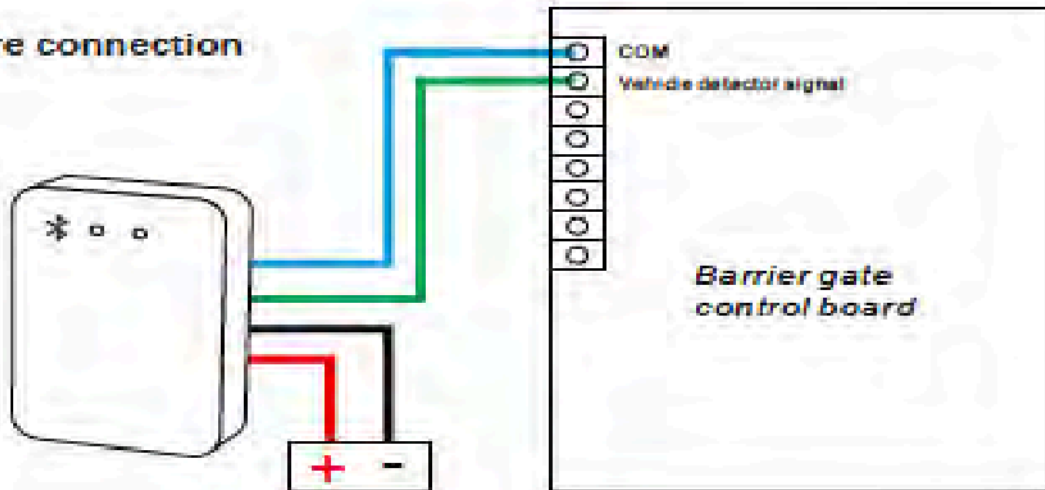


Connection of the radar AX2

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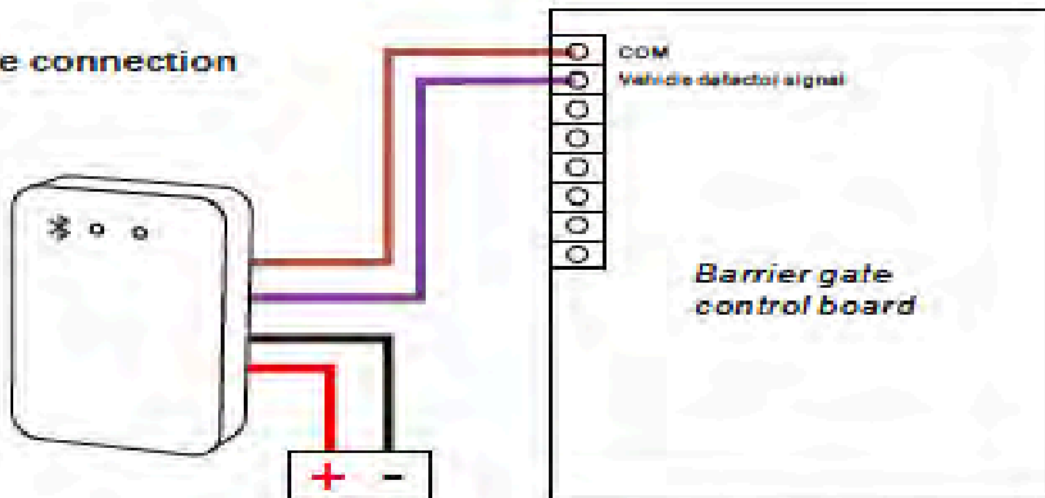


NO wire connection



power supply 9-24VDC (12V/1A preferred)

NC wire connection



power supply 9-24VDC (12V/1A preferred)

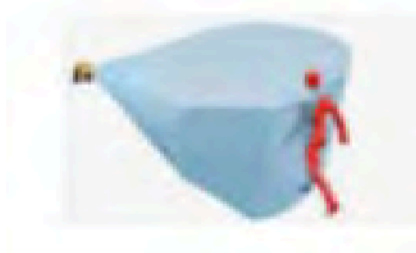
B) You choose Mode 2: Triggering

Please note the following information when fitting the AX2 radar:

The detection field of the radar should be seen as an inflated balloon.

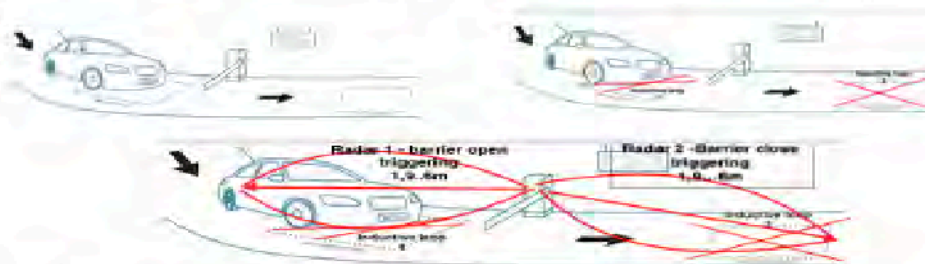
To ensure the correct functioning of the AX2 radar, the radar must be mounted

- in an open surface
- the radar sensor must be mounted at least 80 cm from every wall - fence - gate - ceiling ... etc..



POSSIBLE APPLICATIONS

***For open and closing automatic barrier – replacing inductive loops**

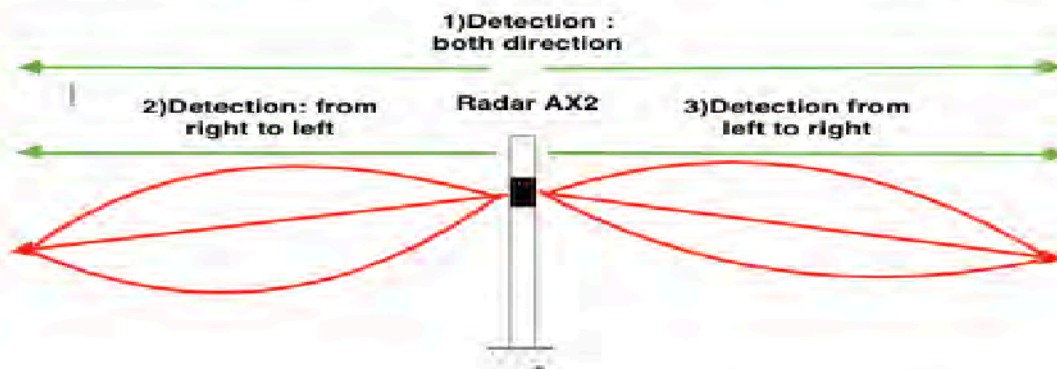


***For triggering a plate recognition camera's**



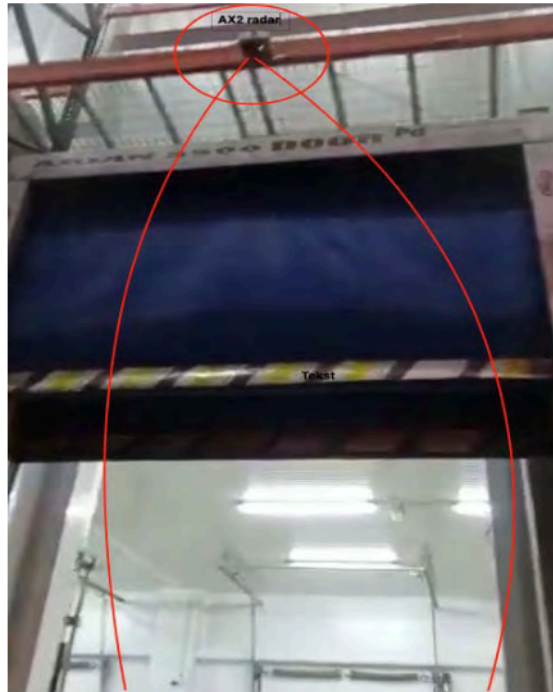
***For car counting in your parking:**

Effective Car Counting is one of the best ways to maximize revenue your parking



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. alternative for inductive loops/photocells: **contactless** open-close detection
Example: Speed gates in very low t° - cool rooms – open and closing speed gate

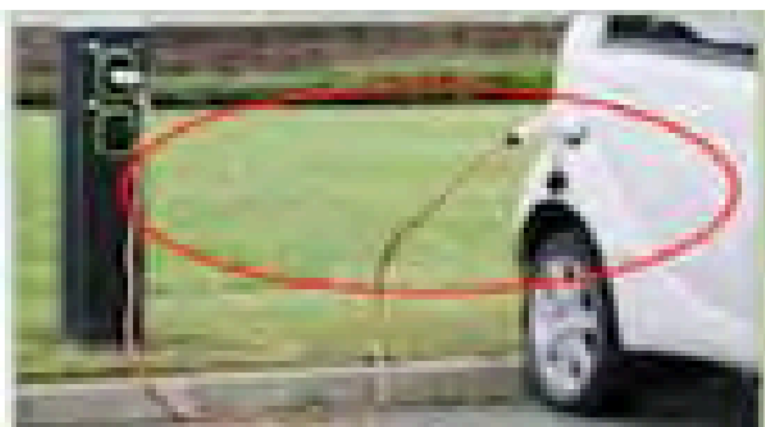


. monitoring arrival and departures of trucks at a loading outdoor dock station



. Electrical

vehicle detection at charging stations



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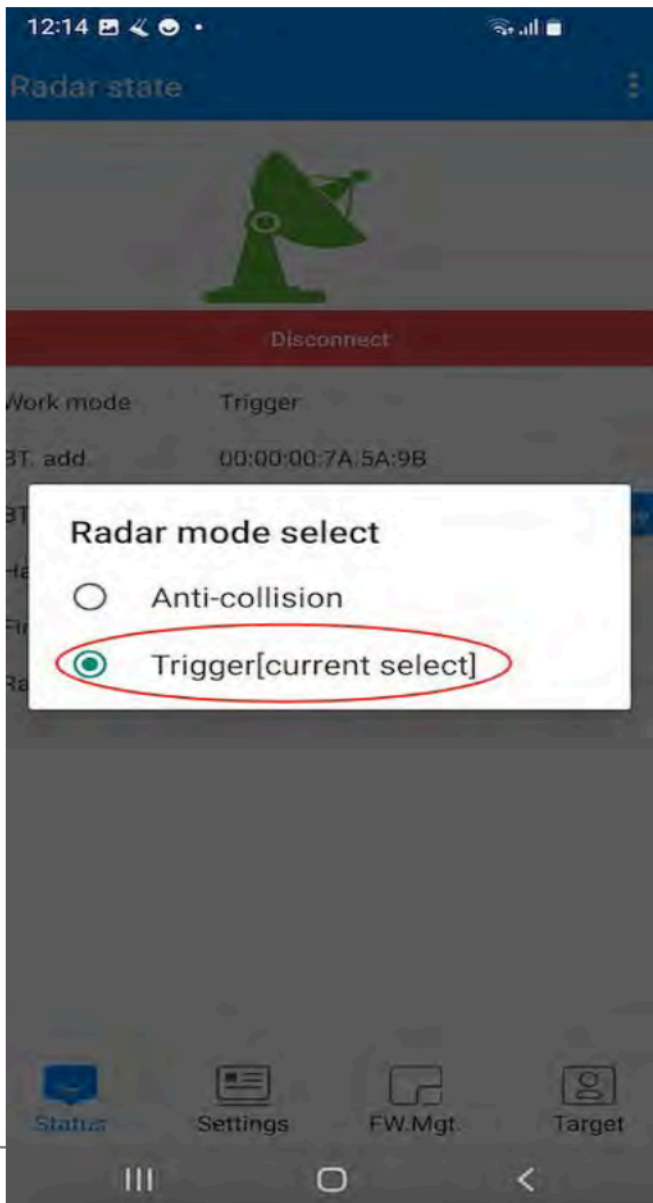
. Different detection between detection of people and cars/Trucks



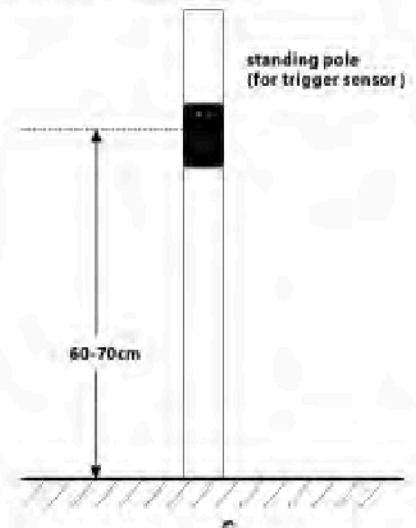
Press on Triggering = as a detector without reflector for opening or closing of automatic barrier or industrial (speed) gate....

Is also an alternative for inductive loops or infrared photocells.

Present detection of trucks in dock stations



installation position(for trigger use)



Llace always radar 60...70 cm off the ground

Mounting bracket

B.1) Make a choice whether or not to detect: 1/2persons

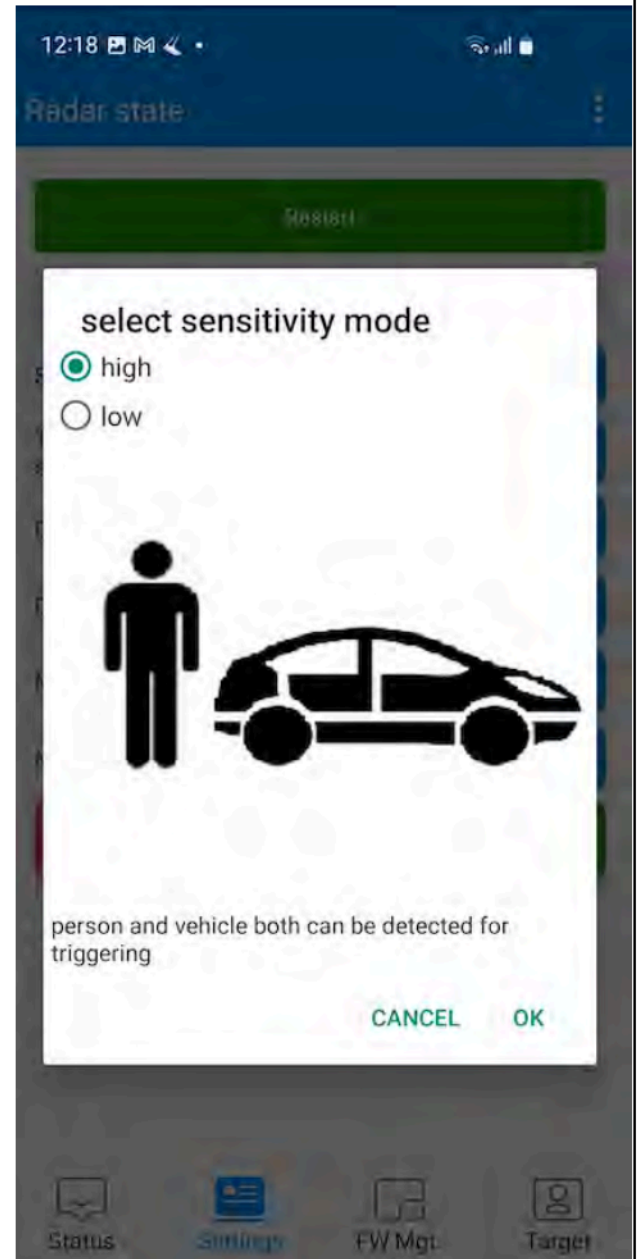
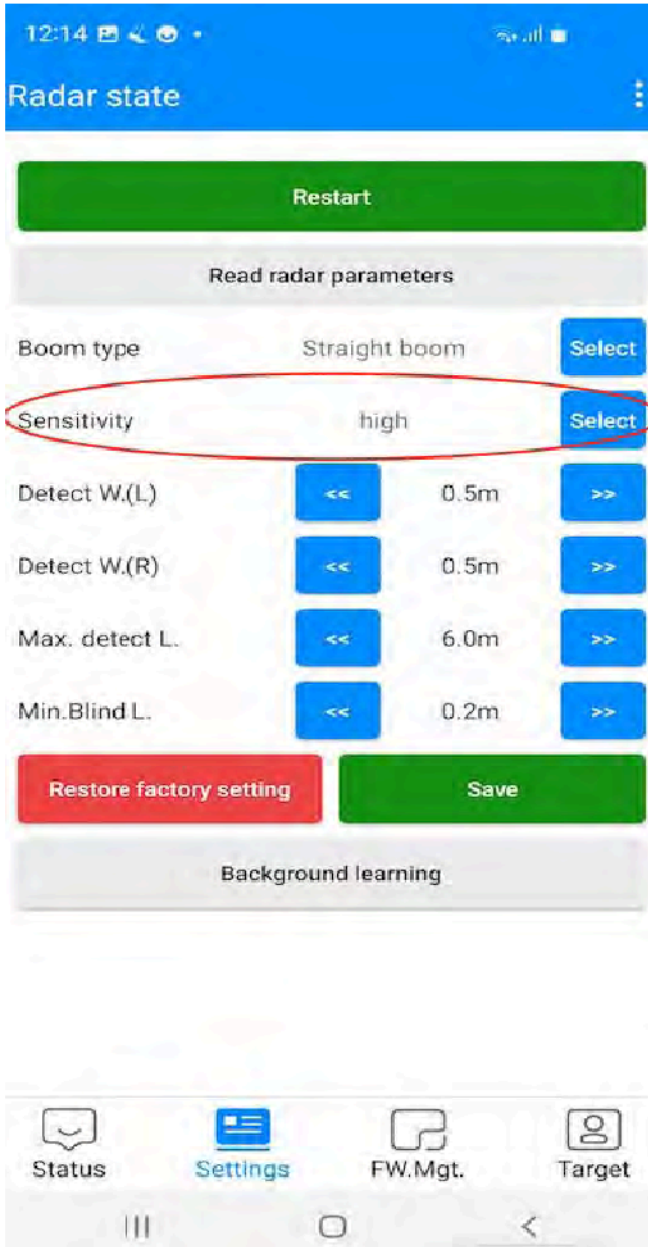
Press on **Select** – Sensivity

. High sensivity: 1/2 persons + car/truck

OR

. Low sensitivity: only car

Press on ok



B.2) Make a selection regarding detection direction:

Position you in the front of the radar AX2

Then press **Select and make your choice**

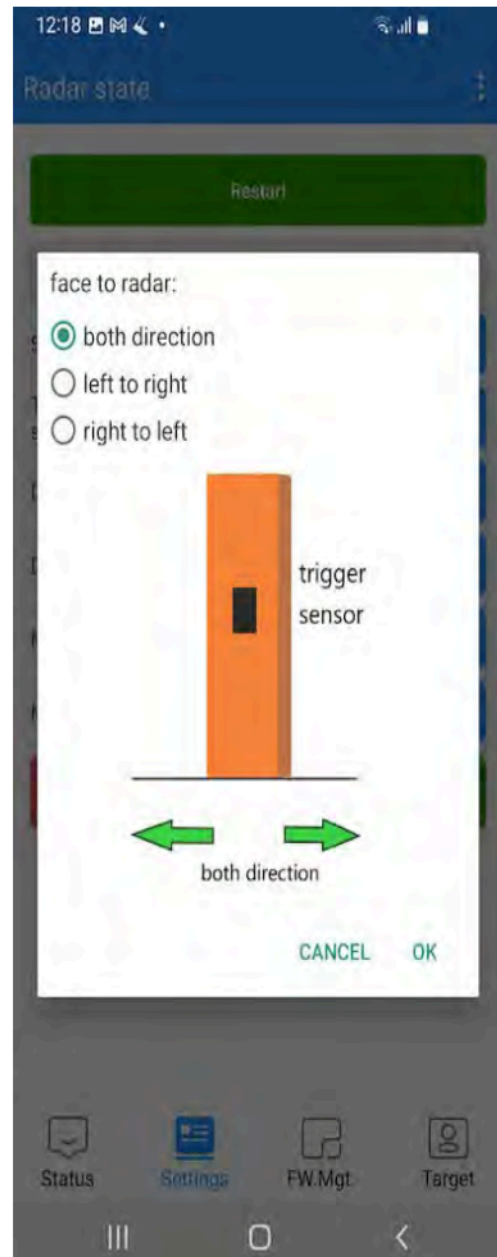
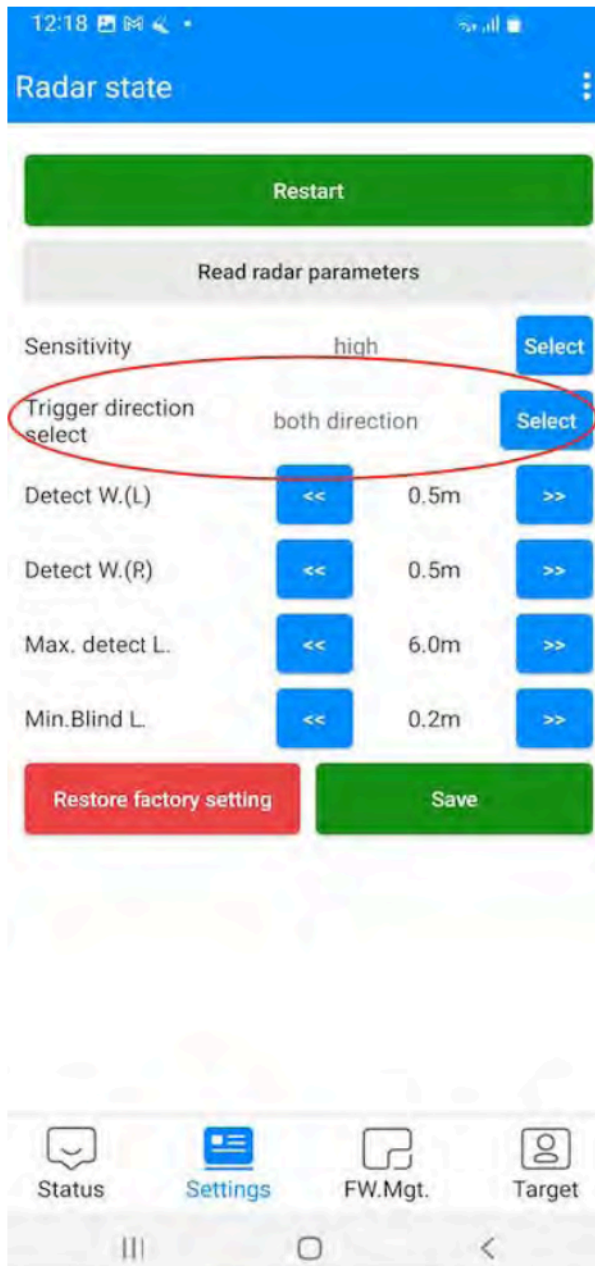
. both(all) directions

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. left to right

. from right to left

Press ok



B.3) Choose the desired detection field:

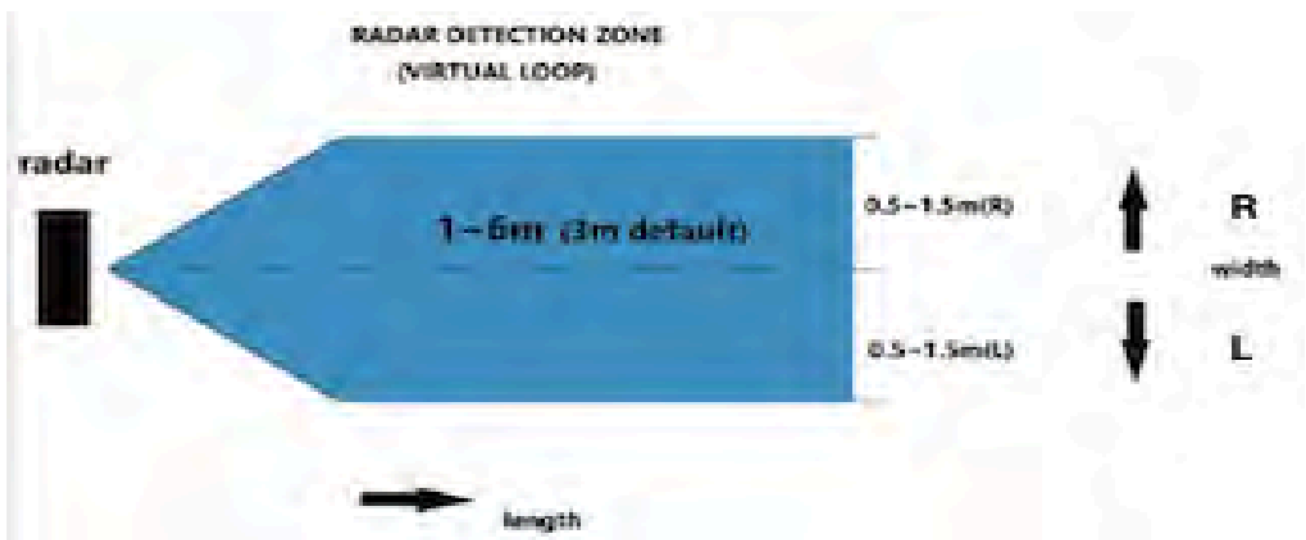
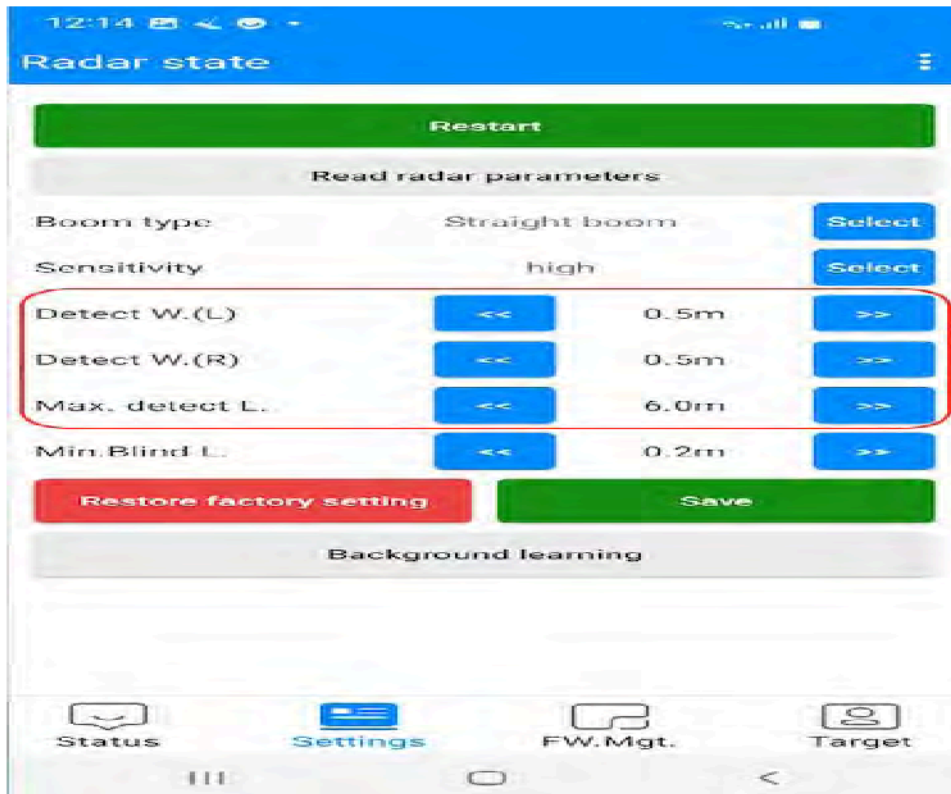
Position you in the front of the radar AX2:

Detection left (L): ts 0,5m...1,5m

Right detection (R): ts 0,5m...1,5m

Forward detection: ts 1.9...6.0m

Press on **SAFE**



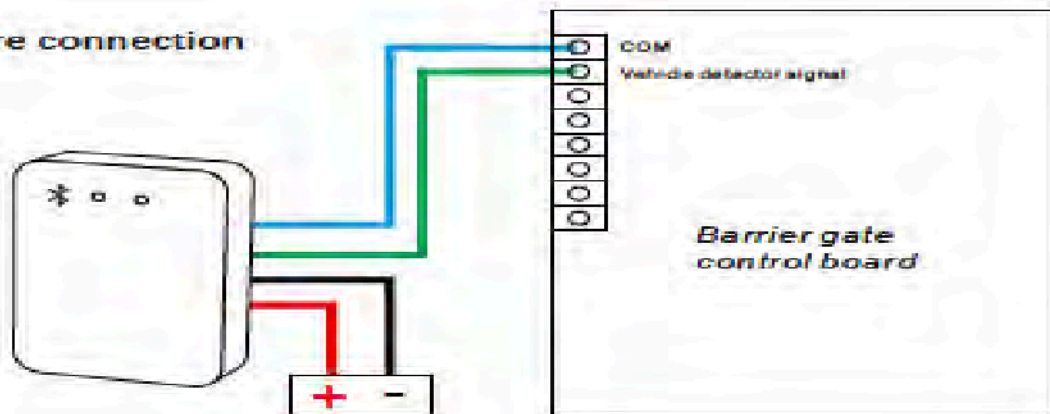
Connection of the radar AX2

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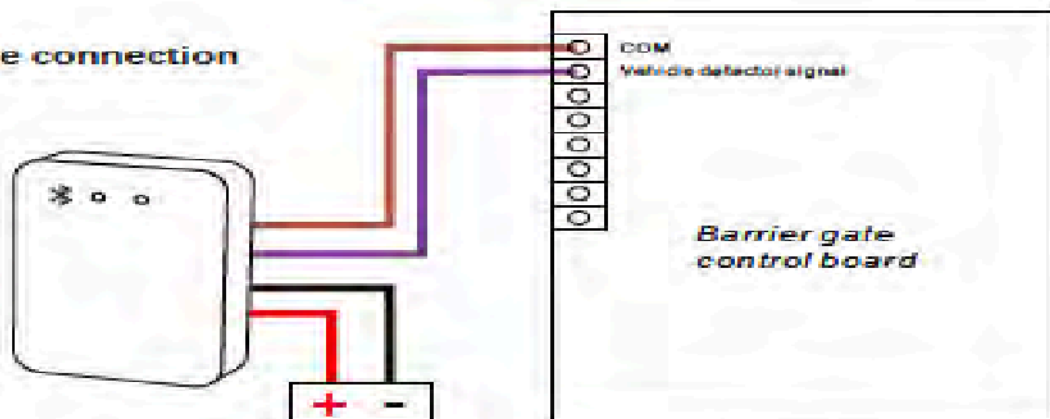
No.	Cable ID	Color	Description
1	9~36V	Red	positive
2	GND	Black	negative

NO wire connection



power supply 9-24VDC (12V/1A preferred)

NC wire connection



power supply 9-24VDC (12V/1A preferred)

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Dear Customer,

In this simple manner, your radar AX2 is now fully configured.

If you still have questions, please let me know by email or phone,

Kind regards ,

Smith & Co.

Mr. Michael Ib
Tel.: +45 40142099

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4320 Lejre
Danmark