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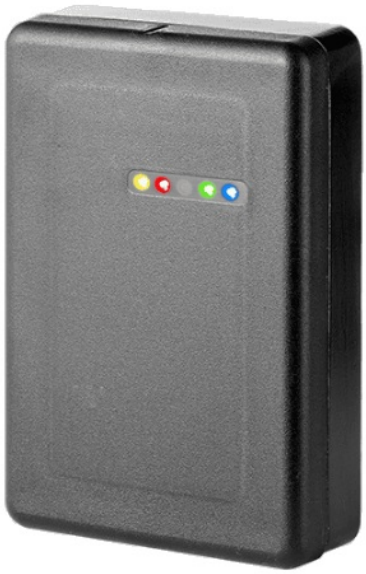
FEIG A104 R-Loop MWD SBP Radar Scanner



Specifications

- Product: R-Loop Radar Scanner
- Device Family: Radar Scanners

- Manufacturer: FEIG ELECTRONIC GmbH
- Date: 26.01.2025

Product Usage Instructions

Default Settings

Enter the required length and width of the opening field in the default settings. By default, the R-Loop only detects vehicles in the presence field. If needed, change this to detect pedestrians as well. Avoid using this mode if you only want vehicles detected.

Cross-Traffic Suppression

In situations where passing vehicles may trigger unintentional openings, adjust the sensitivity levels in the settings to suppress cross-traffic. Select an appropriate sensitivity level based on the site’s conditions to prevent false triggering.

Advanced Settings

Customise the presence area further in the advanced settings. Decouple the presence field from the safety field if local conditions require it. You can easily reconnect them by tapping a button if needed.

Usage Instructions

1. **Installation & Setup**
    - Mount the scanner above the road surface; no road cutting or induction loop trenches are required
    - Secure it on a stable support according to the recommended height and orientation specifications in the user guide.
    - Power the device using the proper 24V DC supply with correct wiring. Follow polarity and terminal instructions precisely
2. **Configuration**
    - Access basic and advanced settings using the mobile app or configuration interface.
    - Set the opening/presence zone dimensions (length and width) to suit your barrier or gate area
    - By default, it detects vehicles only. If required, you can enable detection of

pedestrians by changing the mode to “All, also pedestrians”—but this may lead to false triggers
    - In advanced settings, you can separate or link the safety detection field from the general presence field depending on site-specific requirements
    - To minimise unwanted activation by cross-traffic, adjust the sensitivity levels appropriately
3. **Operation**
    - The radar actively distinguishes static vs. moving objects and separates vehicles from pedestrians in controlled zones
    - Once configured, it can replace traditional induction loops and light barriers for automatic gate or barrier operation
    - Perform routine checks—test detection zones with both vehicle and pedestrian entry to confirm correct response.
4. **Maintenance**
    - Keep the housing clean; use a soft cloth to gently wipe the sensor surface (avoid touching the radar lens directly).
    - Check connections periodically for secure and corrosion-free wiring.
    - Review and recalibrate sensitivity and zone settings if changes in traffic patterns or environment occur.
5. **Safety & Operational Guidelines**
    - Read the full official manual before installation or commissioning; it contains comprehensive safety and installation procedures
    - Only trained personnel should handle electrical wiring, especially with the 24V DC power supply.
    - The scanner must be installed in compliance with national RF regulations—incorrect RF power settings may infringe legal limits and create interference
    - Avoid placing the sensor near surfaces or materials that can interfere with millimetre-wave detection (e.g. reflective metal surfaces).
    - Do not touch the antenna or radar surface, as this may damage sensitive components and degrade performance
    - Ensure that power is cut off before any servicing or adjustment.
    - Avoid exposure to heavy dust, moisture, or extreme temperatures that exceed the specified operating conditions.
    - Never tamper with internal modules unless you have followed the manufacturer’s

instructions.

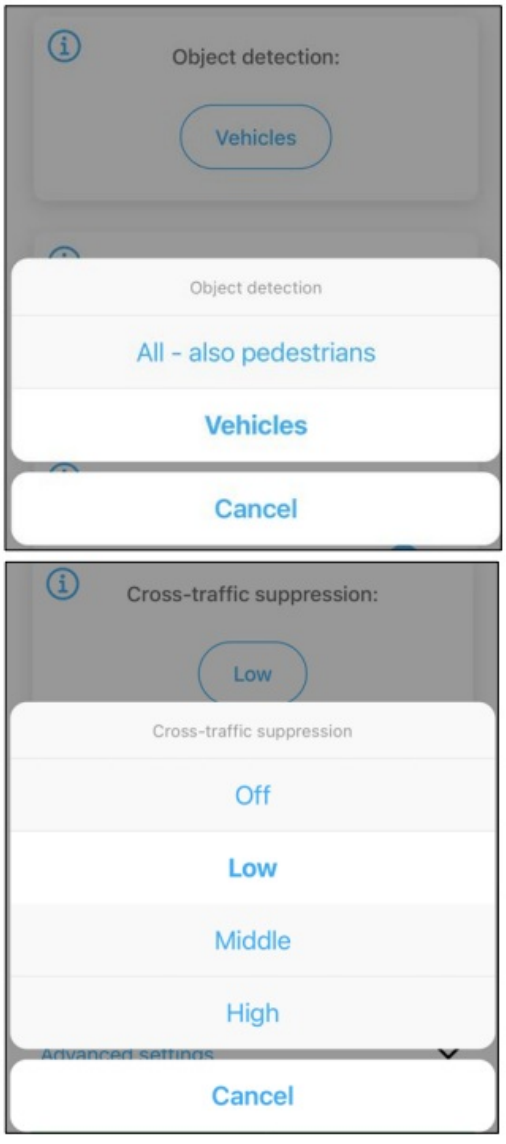
R-Loop – Adjustment of an automatic opening field in entry or exit direction

Device family: Radar scanners

Topic:

The R-Loop can fully cover two induction loop functions. This eliminates the need to install conventional induction loops for your barrier system. A typical configuration that can be covered by the R-Loop is the setting of an automatic opening field for the barrier in the entry or exit direction. If the entry or exit is allowed to be uncontrolled, this ensures an optimal flow of traffic.

Default settings:



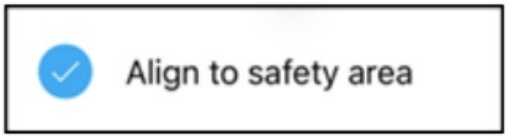
- Enter the required length and width of the opening field in the default settings. By default, the R-Loop only detects vehicles in the presence field if necessary, you can change this by selecting ‘All, also pedestrians’ under ‘Object detection’. This mode should not be used if you only want vehicles to be detected.
- Depending on the entry and exit situation on site, passing vehicles may cross the opening field, leading to unintentional openings. This cross traffic can be suppressed to prevent false triggering. You can choose from various sensitivity levels in the settings. Please check the information on cross-traffic suppression by tapping on the ⓘ and then select the appropriate sensitivity level based on your situation on site

Advanced settings:

You can further customise the presence area in the advanced settings. For example, you can decouple the presence field from the safety field if the local conditions require it.

PLEASE NOTE:

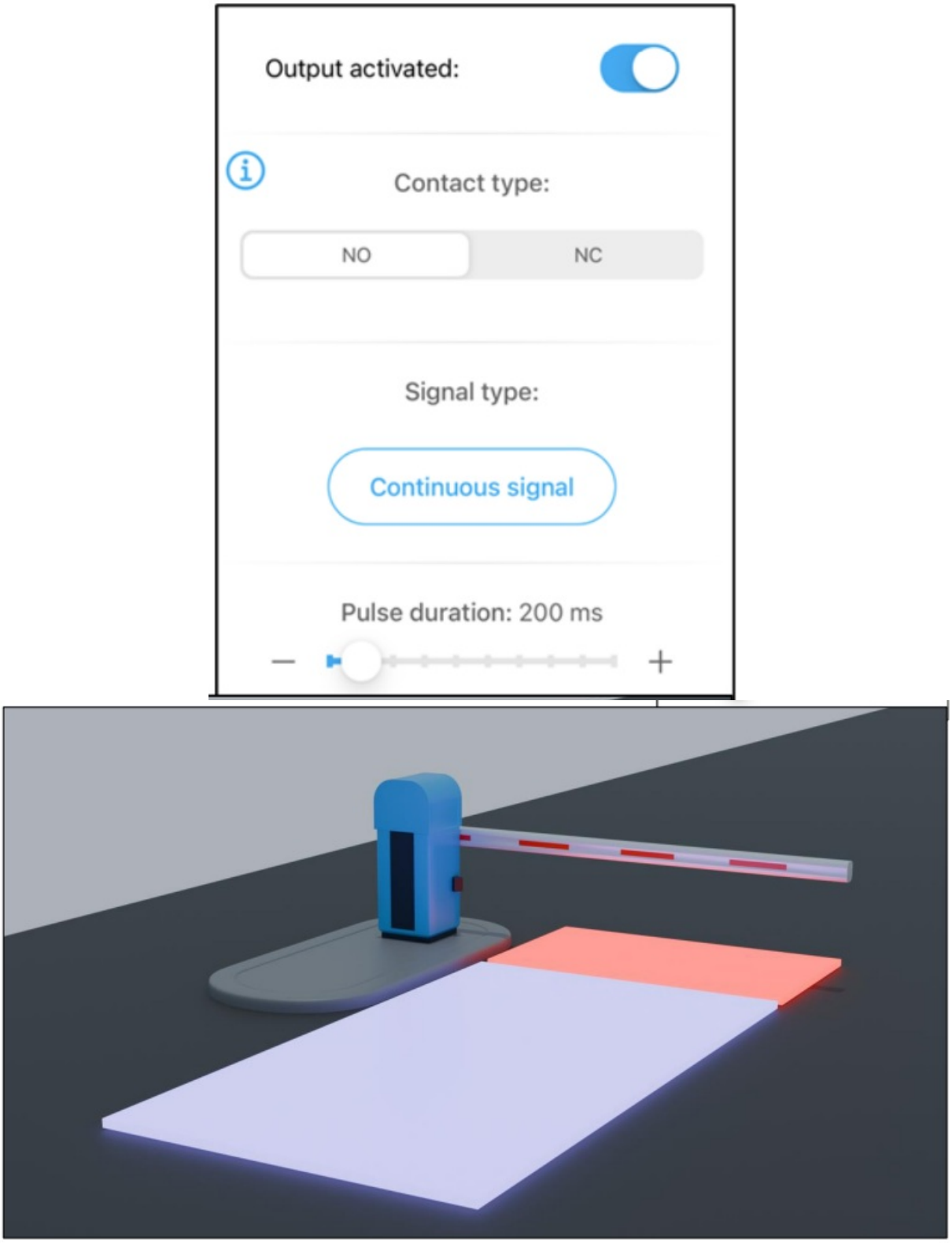
You can reconnect the presence field flush to the safety field at the touch of a button by tapping on:



To obtain automatic opening in the entry or exit direction, it is important that the correct signal type is set. First, make sure that the output itself, i.e. the contact, is activated. To do this, tap on the corresponding slider. Then select between a normally open (NO) or normally closed (NC) contact. The default setting for the signal type is ‘Continuous signal’ – this means that the contact is active if a vehicle is detected in the opening field. This setting can be set to ‘Single pulse’ if required.

PLEASE NOTE:

The choice of the correct contact and signal type depends on the internal wiring of the host system!



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FAQs

Q: How can I prevent unintentional openings due to cross-traffic?

A: Adjust the sensitivity levels in the settings to suppress cross-traffic. Choose an

appropriate level based on your site’s conditions to avoid false triggering.

Q: Can I customise the presence area for specific needs?

A: Yes, you can customise the presence area in the advanced settings. You have the flexibility to decouple or reconnect the presence field as required.

Q: What should I do if I need to detect both vehicles and pedestrians?

A: In the default settings, ensure to select ‘All, also pedestrians’ under ‘Object detection’. However, this mode should be avoided if you only want vehicles detected.

Documents / Resources

	FEIG A104 R-Loop MWD SBP Radar Scanner [pdf] User Guide A104, A104 R-Loop MWD SBP Radar Scanner, R-Loop MWD SBP Radar Scanner, MWD SBP Radar Scanner, Radar Scanner

References

- User Manual

FEIG

A104, A104 R-Loop MWD SBP Radar Scanner, FEIG, MWD SBP Radar Scanner, R-Loop MWD SBP Radar Scanner, Radar Scanner

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