NEW

ACTIVE ZONE RADAR CYCLE & PEDESTRIAN

RFZA RADAR



Cap Mobile BY CAPSYS

The RFZA radar from the R-FLEX range features a fully configurable dynamic detection zone.

Designed to improve the safety and traffic management of active mobility users, the RFZA provides optimal detection of cyclists and pedestrians.

APPLICATIONS

- Green light request
- Green light extension
- Counting
- Signal activation (VMS)
- Dynamic street lighting

CUSTOMERS BENEFITS

- Integration of active mobility users into traffic flows
- Improved safety in urban areas and at pedestrian crossings

KEY FEATURES

- One product, multiple applications
- 1 flexible and configurable detection zone
- Accurate detection and measurements
- Intuitive installation & configuration
- Configurable channels to minimise interference between radars

OPERATING PRINCIPLE

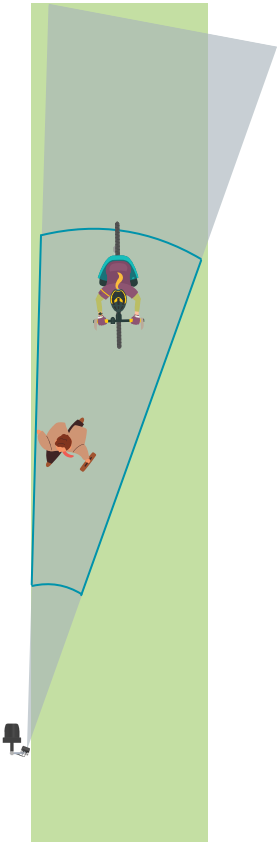
The RFZA version of the R-FLEX range is specifically designed for **active mobility applications.**

Versatile, flexible and suitable for a wide range of applications, the RFZA radar provides **one virtual, configurable detection zone**.

Compact, easy to deploy and configure, The RFZA radar provides a non-intrusive solution to support **traffic signal phase management and pedestrian and cyclist counting**, detecting users approaching, moving away or travelling in either direction.

Detection accuracy is ensured by **24 GHz FMCW** (Frequency Modulated Continuous Wave) technology, **providing reliable speed and distance measurements.**

The radar can be configured using Cap'Mobile, providing simplified configuration, installation assistance and **real-time visualisation**.



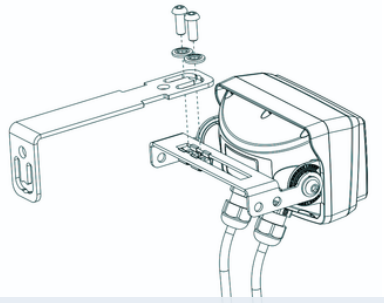
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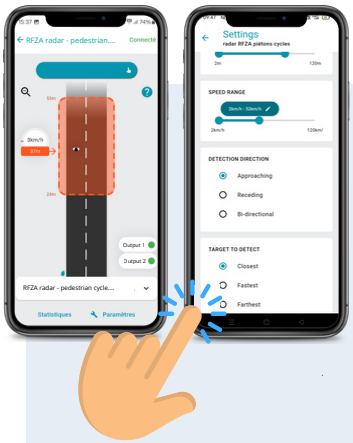
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RF64014A - RFZA RADAR - SEPTEMBER 2026

PRODUCT SPECIFICATIONS

- Multi-position mounting on any type of support for optimal detection performance
- Side mounting option available using an offset bracket





The RFZA radar can be configured **via the Cap'Mobile app** available for download from **Android, IOS and Windows.**

- **Independent configuration of the detection zone** to suit different applications: adjust the start and end positions of the detection zone, speed range and detection direction. Its two configurable outputs (function, detection type, speed threshold, output hold time, etc.) allow detection data to be transmitted to connected equipment, particularly the traffic signal controller.
- **2 radio channels** to prevent interference when multiple radars are installed
- **Real-time parameter adjustment and visualisation**

TECHNICAL CARACTERISTICS

Technology	24 GHz FMCW Radar
Range	2 to 60 m
Speed range	1 to 35km/h
Operating Frequency	Frequency band: K-Band 24.05 – 24.25 GHz / Power < 10 mW
Detection Direction	incoming, outgoing or bidirectional
Output hold time	0 to 59sec
Output Type	2 fully configurable optocoupler outputs Max 50 mA / 30 VAC / 40 VDC
Connectivity	Bluetooth via Cap'Mobile app
Wiring / Connection	• Gland with 5 m cable • IP68 connector + 30 cm cable
Supply Voltage	12–24 V AC/DC (1 output cable) 230 VAC (2 output cables)
Maximum Power Consumption	2W - 20mA @ 230VAC 750 mW – 75 mA @ 12VDC / 1,2W - 120mA @ 24VAC
Operating Temperature Range	Operating temperature: -40°C to +70°C Storage temperature: -40°C to +85°C
Enclosure IP Rating	IP65 – UV resistant
Dimensions	132 x 78 x 70mm
Weight	500 g (230 VAC version with connector + 30 cm cable, adjustment bracket, and mounting bracket included)
Interfaces	Configurable via CAP'MOBILE app – Bluetooth connection Front LED indicators (can be disabled)
Compliance	European Directive 2014/53/EU 2012/19/EU (WEEE)

Accessories

- WAB-100-059 – R-Flex Radar Wiring Kit 230 VAC – 2 cables, 5 m each + IP68 connectors
- WAB-100-060 – R-Flex Radar Wiring Kit 12–24 VAC/DC – 1 cable + IP68 connector
- WAB-100-061 – IP68 Female Connector – 5 pins
- WAB-100-062 – IP68 Female Connectors – 2-pin and 5-pin
- WAB-0-073 – Offset Mounting Bracket for R-Flex Radars 15 cm
- WAB-0-085 - Offset Mounting Bracket for R-Flex Radars 25 cm

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