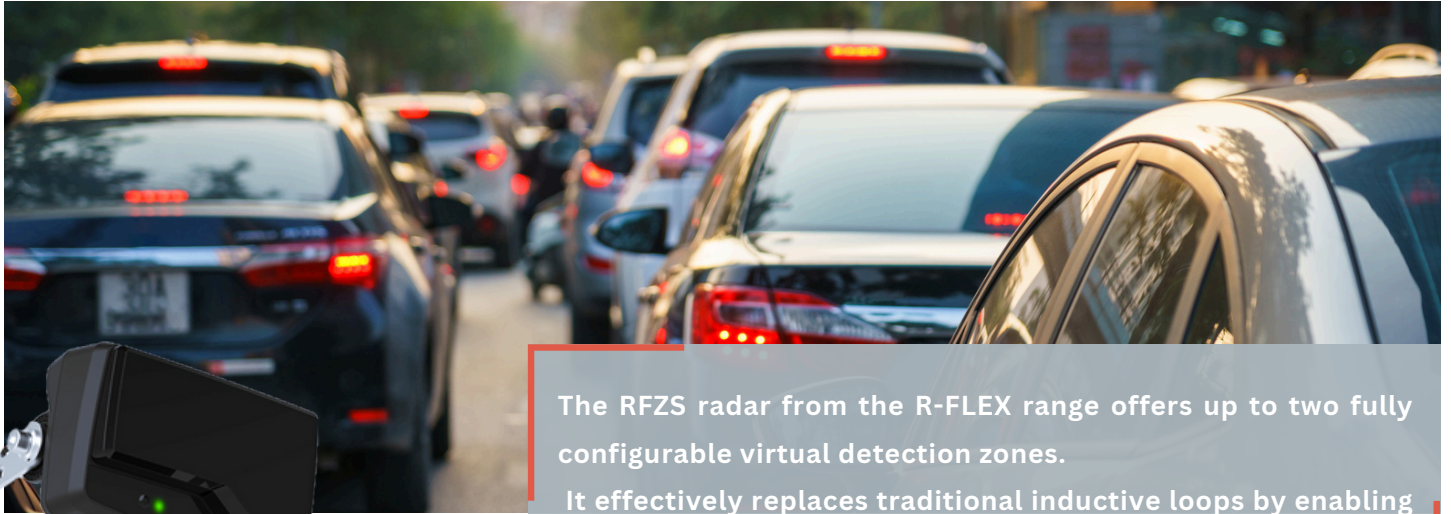


ACTIVE ZONE RADAR RFZS RADAR



The RFZS radar from the R-FLEX range offers up to two fully configurable virtual detection zones.

It effectively replaces traditional inductive loops by enabling the management of multiple traffic applications, such as green reward, green request or extension and counting.

APPLICATIONS

- Micro-regulation
- Green Reward Detection
- Green Demand / Green Extension
- Counting
- Wrong-way detection
- Signal triggering
- Smart public lighting

CUSTOMERS BENEFITS

- Detection accuracy and reliability for optimal traffic regulation
- Time savings during installation
- One product, multiple applications
- Optimized budget

KEY FEATURES

- Two independent and configurable detection zones
- High accuracy in vehicle speed and distance measurement
- Versatile application support
- Simplified installation and configuration
- Multi-radar operation without interference

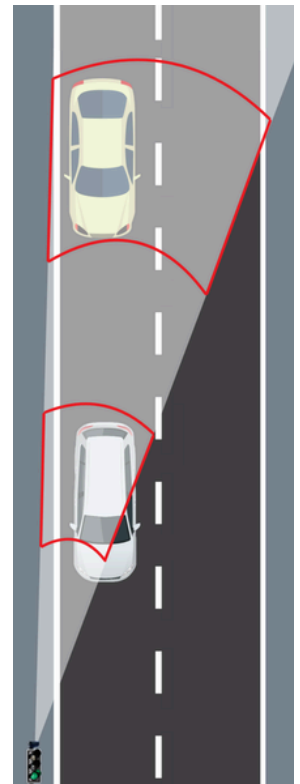
OPERATING PRINCIPLE

Versatile, flexible and multi-purpose, the RFZS radar integrates **one to two independent, configurable virtual detection zones**. It detects vehicle passages in approaching, departing, or bidirectional traffic flows.

Compact, easy to deploy, and simple to configure, the RFZS radar provides a **non-intrusive alternative to traditional inductive loop detectors**.

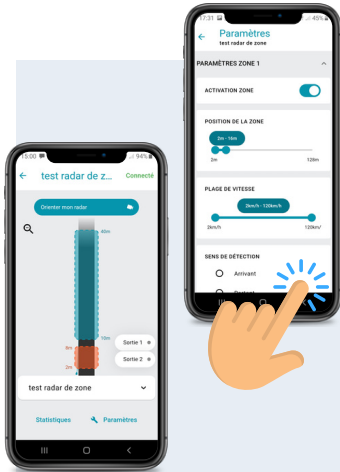
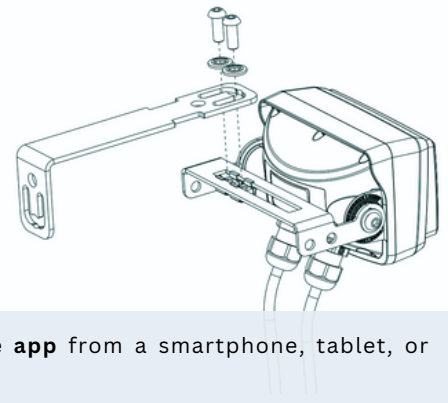
Detection accuracy is ensured by **24 GHz FMCW** (Frequency Modulated Continuous Wave) technology, delivering reliable measurements of both **vehicle speed and distance**.

The radar is compatible with Cap'Mobile: **simplified setup, installation support, and real-time visualization of zones and targets**.



PRODUCT SPECIFICATIONS

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




The RFZS radar can be configured **via the Cap'Mobile app** from a smartphone, tablet, or Windows PC.

The app is available for download from **Google Play, App Store, and Microsoft Store (Windows)**.

- Independent configuration of the **two detection zones** according to the desired use case (distance, speed, detection direction, target to detect) **and of the two outputs** (function, detection type, speed threshold, hold time...).
- **Two radio channels** to prevent interference when multiple radars are installed.
- **Real-time parameter** modification and visualization.

TECHNICAL CHARACTERISTICS

Technology	24 GHz FMCW Radar
Range	2 to 120 m
Operating Frequency	Frequency band: K-Band 24.05 – 24.25 GHz / Power < 10 mW
Detection Direction	incoming, outgoing or bidirectional
Output Type	2 fully configurable optocoupler outputs Max 50 mA / 30 VAC / 40 VDC
Connectivity	Bluetooth via Cap'Mobile app
Wiring / Connection	<ul style="list-style-type: none"> • 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 / 1W - 100mA @ 24VAC 600mW - 60mA @ 12VDC
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