QUEUE DETECTION

DETECT SLOW-MOVING TRAFFIC TO SUPPORT SIGNAL CONTROL



CAPSYS solutions provide detection information that enables connected equipment to adjust traffic signal timings or activate variable message signs when a queue is identified.

Queue detection information to support an appropriate response.

TARGETED DETECTION

Monitor a defined zone configured to suit the site layout.

TRAFFIC SIGNAL ADJUSTMENT

Provide the controller with actionable information to adjust signal timings.

DYNAMIC SIGNAGE

Enable the activation of a variable message sign to inform drivers.

QUEUE MONITORING

Dynamic monitoring of queue growth to prevent queues from extending back to upstream junctions and adjacent roads.

OUR SOLUTIONS FOR QUEUE DETECTION



MFT DETECTORS – MAG-FLEX RANGE

MAG-FLEX detectors detect vehicle presence and passage at strategic points along a road or at a junction.

They transmit a detection state to the traffic signal controller, which analyses it to identify a potential queue and adjust signal control.

QUEUE DETECTION APPLICATION SHEET - OCTOBER 2026 - CE64009A

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RFZS RADAR - R-FLEX RANGE

The RFZS radar uses 24 GHz FMCW technology to detect vehicles and measure their average speed within a configurable virtual zone.

For the queue detection application, it activates an output when this average speed remains below a configured threshold for a specified period.

The RFZS therefore sends queue detection information directly to the traffic signal controller or connected signage equipment, enabling an appropriate response.

CAP'MOBILE: CONFIGURATION AND INSTALLATION SUPPORT

Dedicated queue detection parameters allow the monitored zone, average speed threshold and measurement interval to be adjusted to suit site requirements.



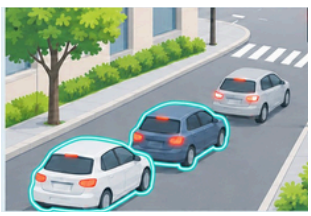
FROM DETECTION TO SIGNAL CONTROL

MONITOR



A TARGETED ZONE UPSTREAM OF THE TRAFFIC SIGNAL

IDENTIFY



RFZS: ANALYSIS BY THE RADAR
MFT: ANALYSIS BY THE CONTROLLER

ADAPT



INFORMATION TO ADJUST SIGNAL CONTROL

BENEFITS OF CAPSYS SOLUTIONS

- Actionable information to adjust signal control
- Support for managing congestion
- Targeted detection tailored to site requirements

KEY FEATURES

- Robust, proven solutions
- Quick and easy installation
- Built-in installer guidance
- Flexible configuration for different applications
- Real-time detection display

Expertise since 1991
FRENCH PME

OVER 390,000 DETECTORS INSTALLED

For over 30 years, our expertise across multiple technologies has covered detection applications for vehicles, pedestrians and cyclists, as well as road and rail public transport.

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