REWARD GREEN TRAFFIC SIGNAL

DYNAMIC TRAFFIC CONTROL FOR CALMER TRAFFIC AND IMPROVED ROAD SAFETY



Adapting traffic signals to actual road-user behaviour

The Reward Green traffic signal strategy dynamically adapts traffic signal operation according to road-user behaviour and prevailing traffic conditions.

Through accurate detection of vehicles approaching the intersection and at the stop line, the system helps to:

- *reduce approach speeds,*
- *improve intersection safety,*
- *enhance traffic flow,*
- *encourage calmer driving behaviour,*
- *adapt traffic signal cycles in real time.*

CAPSYS radar solutions enable reliable and flexible Reward Green strategies that are easy to deploy, with no civil engineering works required.

APPROACH DETECTION FOR TRAFFIC SIGNAL CONTROL

Long-range detection identifies approaching vehicles and dynamically adapts traffic signal operation according to their speed or presence.

VEHICLE PRESENCE DETECTION AT THE STOP LINE

Stop-line detection confirms that vehicles have actually stopped and helps optimise traffic signal state changes at the intersection.

MULTIMODAL INTERSECTION MANAGEMENT

CAPSYS solutions can detect different types of road users and handle complex configurations, including bike boxes and dedicated lanes.

DYNAMIC TRAFFIC CONTROL AND INTERSECTION SAFETY

Our radar solutions enable real-time adaptation of intersection operation to improve traffic flow and reduce potentially hazardous situations.

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ADVANCED DETECTION TECHNOLOGIES FOR DYNAMIC TRAFFIC SIGNAL CONTROL



RFZS RADAR

LONG-RANGE DETECTION AND DYNAMIC DETECTION ZONES

Featuring 24 GHz FMCW technology, the RFZS radar provides reliable road-user detection with advanced detection-zone management.
It can create up to two independent, fully configurable virtual detection zones.

It detects approaching vehicles based on their distance, speed or direction of travel.

RFPV RADAR

INTELLIGENT STOP-LINE DETECTION

The 24 GHz FMCW RFPV radar detects approaching vehicles and their presence at the stop line.
It provides:

- presence detection of stationary vehicles,
- green signal request or extension.

The RFPV radar provides reliable detection for all types of vehicles, on both mixed-traffic and dedicated lanes.

RFZS + RFPV

Two-level radar detection for dynamic traffic management

Combining RFZS and RFPV radars provides:

- long-range detection of approaching vehicles,
- intelligent vehicle presence detection at the stop line.

The RFZS + RFPV combination is particularly well suited to advanced Reward Green strategies and complex urban intersections.

SIMPLIFIED INSTALLATION AND CONFIGURATION WITH CAP'MOBILE

R-FLEX radars are fully configurable via the Cap'Mobile app, providing:

- real-time visualisation of detections,
- intuitive detection-zone configuration,
- built-in dynamic installer assistance,
- fast and secure commissioning.



BENEFITS OF CAPSYS SOLUTIONS

- Reliable and consistent detection
- Optimised intersection and traffic flow management
- Improved traffic flow
- Reduced waiting times
- Improved safety for multimodal road users
- Flexible configuration for different use cases
- Quick installation with no civil engineering works
- Replacement for inductive loops
- Reduced installation and maintenance costs

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