

RADARS RFI

Integrable speed measurement solution at very low power



BENEFITS

- Speed measurement
- Small footprint
- Adjustable range
- Ease of integration

APPLICATIONS

- Vehicle-activated signs (VAS)
- Variable-message signs
- Speed measurement

Remind users of their actual speed, control the infrastructure (traffic lights, variable message signs, etc.) according to speed; all of these actions can influence behaviour and thus regulate and secure traffic.

Operating principles

The RFI radar is the in-sign version of the R-FLEX 24GHz microwave radar range.

It is to be integrated into signs or any controller to detect vehicles and measure their speed. This information is transmitted by relays and then operated for different type of applications such as activation of signs, messages, ...

With its small size and its interfaces, it integrates easily into different signs or controllers.

Characteristics

Efficient

The RFI detects all types of vehicles thanks to its high performance antenna designed by Capsys. Its adjustable range up to 200m, the conditioning of the detection to thresholds of over/under speed or to direction allow it to respond efficiently to multiple applications.

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PRODUCT STRENGTHS

- Simple and easy integration
- Compact size
- Ultra low consumption
- Efficient and adjustable detection

Ultra low consumption

The RFI is a very low consumption product with an average of 2.8mA at 6V which makes it one of the least energy consuming.

Easy set-up

The RFI includes a serial link for data transmission and communication as well as 2 outputs that can be set-up with over/underspeed threshold.

Adapted packaging

The RFI is available in 2 different packagings to adapt to the application : by unit or set of 10 units.

Technical characteristics

Technology	24 GHz Doppler radar Band K: 24,05GHz - 24,25 GHz
Transmission power	<10mW
Radar range	Adjustable up to 200m
Angle	20° horizontal and 40° vertical
Outputs	2 open drain outputs
Output configuration	Activation or deactivation of the output Speed threshold Direction (up coming / leaving / both)
Connection	Micromatch 10 pins connector
IP	65
Power supply	5 to 22VDC
Consumption at 6V	Average: 2,8mA according to configuration Max 55mA
Temperature	Storage: -40°C to +85°C Operating: -40°C à +70°C.
Dimensions	81 x 62,5 x 23,5 mm
Interfaces	Settings : via UART Setting modification possible via Cap'Mobile apps if pairing done at integration. Display: LED (possible desactivation)
Standards	European Directive 2014/53/EU

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