

## TMS-QD

**The TMS-QD is a microwave radar designed to detect vehicle queues.**

### Functional description

The TMS-QD radar detects all vehicles passing in its detection zone, measures their speed and sends the data of each measure to the interface. When the measured speed is lower than a speed threshold called « Queue speed », a counter is incremented. If this counter reaches the value “Queue number” before the « Queue timer » (in seconds) is reached, the relay gives a contact. The radar holds this contact as long as the measured speeds remain under the « Queue speed ». When the measured speeds exceed the value « Fluid speed » for a number of vehicles called « Fluid number » the contact is released. If there are no measurements during a period « Fluid timer » (in minutes) the contact is also released.

### Comfort

- Environmental insensitivity: dust, heat, intense cold, humidity, ... have no influence on the radar's performances.
- Cable connector at the rear
- No maintenance
- Delivered ready to install, i.e. including cable, omni-directional mounting device (double L), screws and bolts

### Safety

- Aluminium IP65 housing
- Operating temperature from – 40 °C to + 75 °C

### Settings (by software, i.e. without opening the radar)

- Queue speed, Queue number, Queue timer
- Fluid speed, Fluid number, Fluid timer

### Standards & approvals

- CE (electromagnetic compatibility and electrical safety): the TMS-Basic-QD radar complies with the essential requirements of Article 3 and the other relevant provisions of the R&TTE Directive 1999/5/CE, when used for its intended purpose.

#### Icoms Detections S.A.

Avenue Albert Einstein 11/b  
B-1348 Louvain-la-Neuve (Belgium)  
Tel : +32 10 45 41 02 & Fax : + 32 10 45 04 61  
E-mail : [info@icomsdetections.com](mailto:info@icomsdetections.com) - Web : [www.icomsdetections.com](http://www.icomsdetections.com)

*(Specifications subject to change without prior notice)*

## Technical data

Frequency	K-band : 24.1250 GHz
Range of detected speed	from 5 to 250 km/h
Degree of protection	IP65
Power supply	12-60 VDC
Power consumption	+/- 55 mA in 12-24 V DC
Transmission power	< 5 mW
Operating temperature	From -40 °C to +75 °C
Dimensions	70 x 100 x 270 mm
Processor	Micro-controller 20MHz RISC
Interface	RS232
Baud rate	9.600 – 115.200 bps
Weight	1.3 kg, excl. cable and mounting support
Horizontal installation angle	45°
Installation height	2,5 m to 5 m
Detection range	maximum 10 m
User output	Inverter relay contact Resistive load : 110 VAC 0,5A – 24 VDC 1A Inductive load : 110 VAC 0,2A – 24 VDC 0,3A



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Tel : +32 10 45 41 02 & Fax : + 32 10 45 04 61  
E-mail : [info@icomsdetections.com](mailto:info@icomsdetections.com) - Web : [www.icomsdetections.com](http://www.icomsdetections.com)

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