

## TMS-Basic

**The TMS-Basic microwave radar is designed to measure the speed of vehicles in uni- or bi-directional and transmit this information online by serial communication (RS232).**

### 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 IP68 housing ;
- Operating temperature from – 40 °C to + 75 °C.

### Settings

- Measurement unit : *mph* or *km/h* ;
- Minimum and maximum speed for detection : the radar will only transmit speed values between those limits ;
- Speed threshold for relay contact : if the measured speed is above this threshold, a contact is given ;
- Relay hold time ;
- Speed of communication with serial port (9,600 to 115,200 bps) ;
- Time available to set the radar before it switches in the measured mode ;
- Movement direction (approaching (in) or receding (out)) ;
- Installation angle regarding the axis of the road.

### Option

- The TMS-Basic radar is also available as an OEM version: the TMS-Basic-H. This radar is designed to be installed, without housing, inside traffic signs. It has the same features as the TMS-Basic but is delivered without housing and is therefore not IP68.

### Standards & approvals

- CE (electromagnetic compatibility and electrical safety) : the TMS radar complies with the essentials requirements of Article 3 and the other relevant provisions of the R&TTE Directive 1999/5/CE, when used for its intended purpose (Article 3.1.a : EN 60950 ; Article 3.1.b : EN 50082-2 ; Article 3.2 : EN 300 440-2)

### Technical data

Range of detected speed	from 5 to 250 km/h
Accuracy	speed : 99 %
Detection range	light vehicle : 80-100m heavy vehicle : 100-200m
Operating temperature	From -40 °C to +75 °C
Power supply	10-60 V DC
Power consumption	55 mA in 12-24 V DC
Frequency	K-band : 24.1250 GHz
Transmission power	< 5 mW
Dimensions	70 x 100 x 270 mm
Weight	1.3 kg, excl. cable and mounting support
Degree of protection	IP68
Interface	RS232 with DB9 connector
Baud rate	9,600 to 115,200 bps
Software environment	Windows 98 or higher
User output	Inverter relay contact

