



## Radar doppler microwave



### MD01

The MD01 microwave sensor is a last generation doppler radar with digital signal processing. It is a very versatile sensor that can be installed both above the lane and at the side of the road to detect speed, count vehicles and classify them.

The "patch" antenna has an opening angle of 12° x 25° and it is able to cover the entire width of the lane.

For an optimal performance and a good accuracy of the data it is recommended to install one MD01 per lane, but the sensor is able to detect vehicles even on two lanes and to determine the direction of travel.

The antenna signals are analyzed by the internal microcontroller which, through digital signal processing techniques, provides the following transit data:

- Counting
- Length
- Classification in length
- Speed
- Gap

Microwave technology, using the Doppler effect, is very accurate in detecting speed.

MD01 has two serial lines: one RS232 for connections up to 10-15 meters and one RS485 for long distance connections. It also has a "digital output" for a possible synchronization with cameras.

### VERSIONS

In addition to the basic version MD01, the lighter and more compact MD01-L version is also available.



### MD02



Technology	Radar doppler microwave
Frequency	24,15 Ghz - K Band
Transmission power	16 dB
Opening angle	MD01: 12 x 25° or 9 x 18° MD02: 5 x 6°
Data line	RS232 & RS485
External dimensions	120 x 122 mm.
Power consumption	120 mA max.
Power supply	12 Vdc
Temperature range	-15°C : +55°C
Weight	600/900 g