



SRM radar sensor



Designed to detect vehicles, the high-tech SRM radar uses the Doppler-Fizeau effect principle at a frequency of 24.125 GHz, combined with a high-performance micro-controller.

With this very high frequency and extreme miniaturisation, the SRM radar delivers exceptional performance in a water resistant and compact housing.

Its attachment system, which is specifically designed for street lighting, makes it easy to install and offers the radar multi-axial orientation.

The SRM radar is to be used with the VIA relay to interface with the SensyCity environment.

ADVANTAGES

- Compact and discreet.
- Robust and unaffected by weather conditions.
- Can be adjusted without opening the device.
- Non-intrusive technology.
- Multi-axial orientation.
- Easy to attach, designed for street lighting lampposts.

TECHNICAL CHARACTERISTICS

Technology:

- Ultra-high-frequency 24.125 Ghz.

Mechanical characteristics:

- Dimensions: 180 x 100 x 70 mm.
- Weight: 1.2 kg.
- Housing: IP65 with thermal protection / Painting & anodisation.

Electrical specifications:

- Switched power.
 - Resistive load: 110 V_{AC} 0.3 A - 24 V_{DC} 0.3 A.
 - Inductive load: 110 V_{AC} 0.2 A - 24 V_{DC} 0.3 A.
- Supply voltage: 220 V_{AC} +/- 10% 48/62 Hz fuse protection.
- Consumption < 1.5 VA.

Installation:

- Radar range: 150 m for light vehicles.
- Operating temperature: -40°C to +75°C.
- Connection: 1 x IP68 7-pin connector pre-wired 5 m.

Settings:

- Mode: One-way incoming flow / Two-way.
- Configured using the switch on the front panel.
- Display: High-performance red LED on front panel.

Standards:

- Compliant with EC standards.
- Meets the requirements of directive R/TTE 1999/5/EG.

OPERATION

The radar can operate over a distance up to 150 metres and offers two sorts of information:

- relay 1 takes all vehicles into consideration (from the adjustable lower threshold, 2 or 4 km/h, up to the maximum detectable speed, i.e. 160 km/h).
- relay 2 simultaneously senses all vehicles with a speed exceeding the “over-speed” threshold (adjustable from 30 to 100 km/h).

PERFORMANCE

Direction of sensing

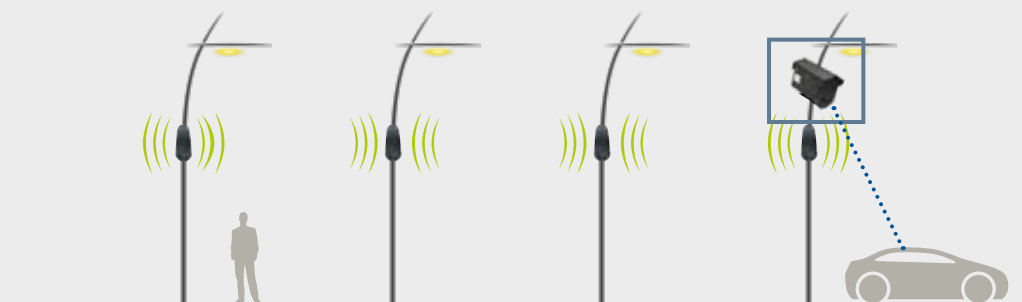
Option to choose between one-way incoming flow sensing or two-way sensing, providing great flexibility of use with a single product.

Minimum movement length

The minimum movement length parameter to validate sensing can be adjusted, thereby increasing the reliability of the product.

Speed thresholds

Speed thresholds can be configured using a switch.



EASY TO IMPLEMENT

Ease of installation

The SRM radar is easy to attach to street lighting using the specially designed attachment system that fits any kind of lamppost and which offers multi-axial orientation.

Accessible settings

Easy access to settings via a removable watertight window on the front panel (no screws to be removed).

Status is displayed via super-bright LED.

