

# DETECTION SOLUTIONS

# 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 Vac 0.3 A - 24 Vbc 0.3 A. Inductive load: 110 Vac 0.2 A - 24 Vbc 0.3 A.

- Supply voltage: 220 Vac +/- 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

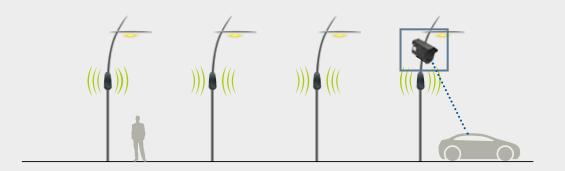
Option to choose between one-way incoming flow sensing or two-way sensing, providing great flexibility of use with a single product.

# 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.

