

## Moving & stopped vehicles detection and counting



THE **TMA-122** IS AN "ALL-IN-ONE" MICROWAVE SENSOR FOR TRAFFIC SIGNAL REGULATION

- ✓ Virtual **approaching** inductive loop
- ✓ Virtual **stop-line** inductive loop
- ✓ **Counting** at the stop-line
- ✓ Bicycle, motorcycle & vehicle **movement** detection
- ✓ Bicycle, motorcycle & vehicle **presence** detection

### SAVINGS ON BUDGETS FOR

- Road digging & cutting
- Security
- Intervention team

### HOW DOES IT WORK?

When a vehicle approaches or stops in the targeted area, a relay output can be activated until it leaves the zone.

**1 vehicle = 1 relay activation**



### WHY A RADAR?

#### ABOVE GROUND TECHNOLOGY

- Safer for the traffic engineers, who can stay on the roadside for installation
- Less expensive: no road works and no traffic interruption needed for the installation

#### IT OPERATES UNDER ALL WEATHER CONDITIONS

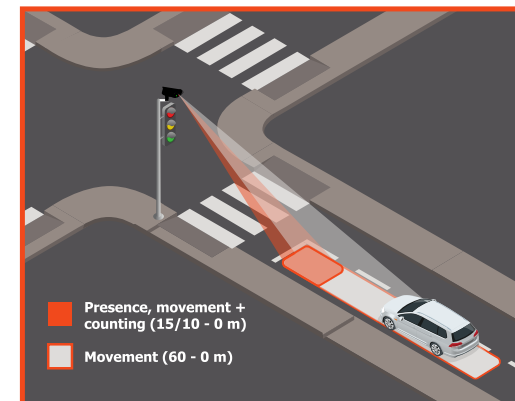
Frost, snow, fog, etc. have no influence on the radar performance.

#### NOMAINTEANCE

No lens to clean, no calibration.



### ADVANTAGES



- ✓ 1 single radar replaces 2 inductive loops
- ✓ Settings without radar opening or software
- ✓ Self monitoring
- ✓ Counting at the stop-line

## WHY AN ICOMS RADAR?

### FIELD PROVEN AND RELIABLE

Thousands of ICOMS radars installed worldwide since 1993.

### USERFRIENDLY

- Easy to install
- Detachable cable at the rear side
- Delivered ready to install, i.e. including cable, fixing support, screws and bolts
- Self-monitoring feature

## TECHNICAL FEATURES

	TMA-122 LV	TMA-122 MV	TMA-122 HV
Detection range	Up to 60 m		
Detected speed	Up to 110 km/h Min. radial speed for target validation: 7 km/h Min. vehicle tracking speed: 0.8 km/h		
Detection direction	Approaching		
User output	2 relay contacts (resistive load : 30 V AC 0.3 A – 60 V DC 0.3 A) 2 visible LEDs on front face		
User input	2 rotary encoders		
Environmental protection	IP 65		
Frequency	K-band: 24.165 - 24.235 GHz		
Power supply	10-30 V AC 12-60 V DC	15-54 V AC 21-75 V DC	100-240 V AC 50-60 Hz
Power consumption	< 1.2 W @ 12 V DC	< 1.2 W @ 24 V DC	< 2 W @ 220 V AC
Temperature range	-40 °C to +60 °C		
Dimensions	68 x 99 x 119 mm	68 x 99 x 205 mm	
Weight (excl. cable & mounting support)	0,320 kg	0,510 kg	0,543 kg
Mounting system	Specific mounting system (supplied), adapted for M8		

## OPTIONS

- power supply:  
LV (10-30 V AC/12-60 V DC)  
MV (15-54 V AC/21-75 V DC)  
HV (100-240 V AC)



### STANDARDS

- Directive 2014/53/EC
- FCC Part 15B class A (for LV version powered with 12 V)
- IC ICES-003 issue 6 (for LV version powered with 12 V)
- TOPAS 2505A

### ICOMS DETECTIONS SA

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**TMA-122**