

TMA-122 Moving and stopped vehicles detection and counting

The TMA-122 is an “all-in-one” microwave sensor for traffic signal regulation

Vehicle Detection and Counting

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

Cost savings

- No road construction costs
- Better security
- Reduced intervention

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

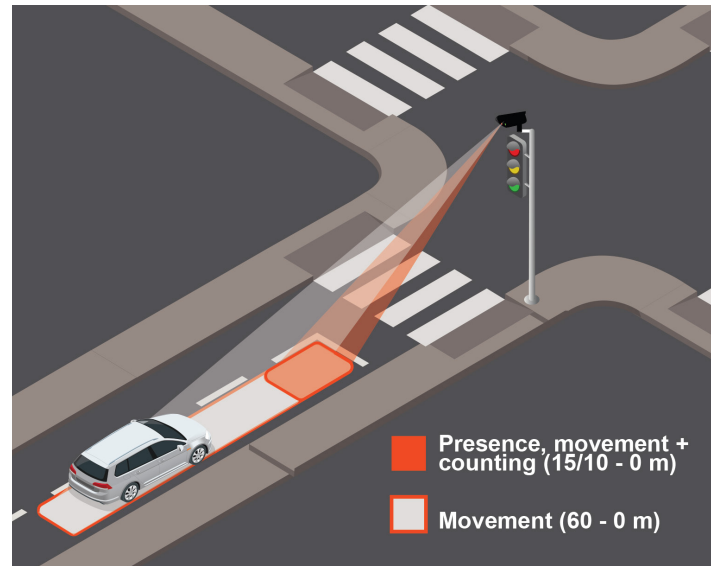
Advantages

- 1 single radar replaces 2 inductive loops
- Setup does not require software or opening the road
- Self monitoring
- Counting at the stop-line

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



Operates under all weather conditions

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

No maintenance required

No lens to clean, no calibration.

TMA-122 Radar Technical Specifications

Why an Icoms radar?

Field proven and reliable

Thousands of Icoms radars installed worldwide since 1993.

User friendly

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

Options

Power supply: LV (10-30 V AC/12-60 V DC),

MV (15-54 V AC/21-75 V DC) or 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

TECHNICAL FEATURES

	TMA-122 LV	TMA-122 MV	TMA-122 HV
Detection range	Up to 60 m (200 ft)		
Detected speed	Up to 110 km/h (68 mph) Min. radial speed for target validation: 7 km/h (4 mph) Min. vehicle tracking speed: 0.8 km/h (0.5 mph)		
Detection direction	Approaching		
User Output	2 visible LED's on front face - 2 relay contacts		
User input	2 rotary encoders		
Environmental protection	IP65		
Frequency	K-band; 24.165 - 24.235 GHz		
Operating temperature	From -40 °C to +60 °C (-40 °F to +140 °F)		
Mounting system	Specific mounting system (supplied), adapted for M8		
Consumption	< 1.2 W@12 V DC	< 1.2 W@24 V DC	< 2 W@220 V AC
Power supply	10-30 V AC 50-60 Hz 12-60 V DC	15-54 V AC 50-60 Hz 21-75 V DC	100-240 V AC 50-60 Hz
Dimensions	68 x 99 x 119 mm (2.7 x 3.9 x 4.7 in)	68 x 99 x 168 mm (2.7 x 3.9 x 6.6 in)	
Weight (without cable and mounting support)	0.350 kg	0.460 kg	0.485 kg

