



TMA-122

Microwave Detector for Traffic

The TMA-122 is an all-in-one radar sensor designed for dynamic traffic light control. It replaces inductive loops for detecting the presence, counting, and passage of vehicles near the stop line.

Thanks to its integrated dual relay and zoned configuration, it detects both moving and stationary vehicles, enhancing traffic efficiency and intersection safety.



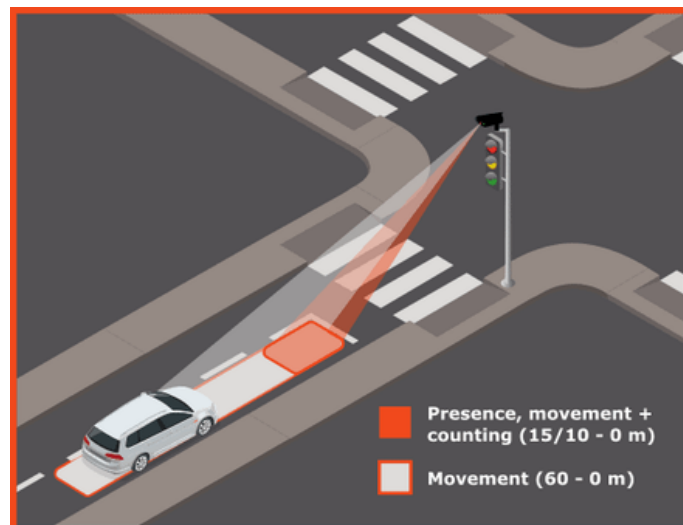


General Features

- Detection of moving vehicles up to 60m before the stop line;
- Detection of stationary vehicle presence within a configurable zone (default: 10m);
- Separate relay activation for "presence" phase and stop line crossing;
- Vehicle counting based on stop line passage;
- Intersection blockage alert if a vehicle does not start moving at green light.

Example Applications

- Triggering or extending the green phase;
- Vehicle presence detection near the traffic light;
- Vehicle counting at intersections;
- Access/exit monitoring in parking areas without fixed infrastructure;
- Cost reduction on:
 - Civil works;
 - On-site safety;
 - Maintenance and installation.



Technical Specifications:

Specification	Value
Detection range (moving vehicles)	Up to 60 m
Detection range (stationary vehicles)	Default 10 m (adjustable up to 15 m)
Detectable speed	Up to 110 km/h
Detection direction	Approaching
Configuration	External, without opening the sensor
Installation	Above ground, no roadwork required
Operating temperature	-40 °C / +60 °C
Protection rating	IP65
Radar frequency	K-band: 24.125-24.235 GHz
Transmitted power (E.I.R.P.)	< 20 dBm
User outputs	2 SPDT relays + front LED indicator

Power Supply and Available Versions

Version	Power Supply	Dimensions (mm)	Weight (incl. Cable)
TMA-122-LV	10-30 V AC / 12-60 V DC	68×99×119	350 g
TMA-122-MV	15-54 V AC / 21-75 V DC	68×99×168	460 g
TMA-122-HV	100-240 V AC	68×99×168	485 g



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