



TMA-011

Pedestrian and Cyclist Detector

The TMA-011 is a radar sensor designed for the reliable detection of moving pedestrians and cyclists. Thanks to its ability to detect at low speeds and its versatile installation options, it is an ideal solution for traffic light applications and for the dynamic control of lighting or signage.





General Features

- Automatic detection of pedestrians and cyclists up to 30 m;
- Quick above-ground installation, with no traffic interruption or civil works required;
- Opens or closes a dry contact upon detection of movement (> 0.5 km/h);
- Suitable for all weather conditions;
- Maintenance-free with integrated self-diagnostics;
- Configuration without opening the enclosure;
- The output contact can be used to activate automated devices such as traffic lights, lighting systems, dynamic signs, or warning signals;

Example Applications:

- Automatic extension of pedestrian green phase;
- Activation of green phase for cyclists without push buttons;
- Switching on tunnel or underpass lighting upon detecting people;
- Vehicle alert for the presence of vulnerable road users;
- Activation of station or parking lot lighting when motion is detected.



Technical Specifications:

Specification	Value
Detection range	8, 12, 16 o 30 m (regolabile)
Minimum detectable speed	0,5 km/h
Detection direction	Approaching, <u>departing</u> , bidirectional
Detectable speeds	0,5 – 100 km/h
Available power supplies	- LV: 10–30 V AC / 12–60 V DC - MV: 15–54 V AC / 21–75 V DC - HV: 100–240 V AC
Power consumption	< 1,2 W (a 12 o 24 V DC)
Response time	< 500 ms
Relay hold time	750 ms
Protection rating	IP65, EN 50102 (IK)
Radar frequency	Banda K – 24,125 GHz
User outputs	LED frontale + contatto relè (SPDT)
Operating temperature	da –40 °C a +60 °C
Mounting	Staffa “doppia L” per viti M8 inclusa
Dimensions	- Versione L: 68 × 99 × 119 mm - Versioni M / H: 68 × 99 × 168 mm
Weight (with cable and bracket)	0,35 – 0,48 kg (in base alla versione)