

## TMA-011 Radar for Pedestrian & Cyclist Detection

The TMA-011 Radar Sensor allows, among other applications, the extension of the green phase on the crosswalk.

### Pedestrian and cyclist detection

- Intersections:
  - Adaptive green for cyclists and pedestrians
  - Green phase call on bicycle path
- Activation of lighting on motion detection
- Activation of signs warning motorists of the presence of cyclists or pedestrians in the vicinity

### Cost savings

- No road construction costs
- Better security
- Reduced intervention

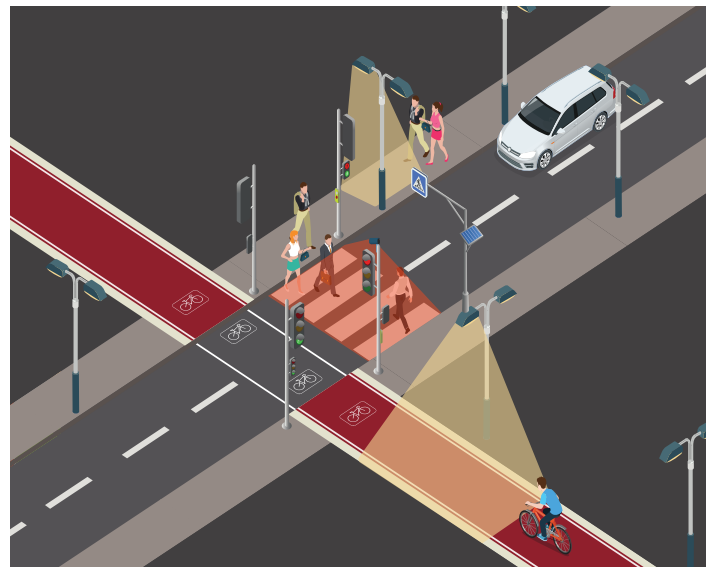
### Advantages

- Setup does not require software or opening the radar
- Self-monitoring
- Bidirectional detection
- Long range: up to 30 m (100 ft)
- Adjustable detection distance

### 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



### How does it work?

When a pedestrian or a cyclist is detected, a relay output is activated until the movement stops.

### 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-011 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)

## Technical Features

	TMA-011 LV	TMA-011 MV	TMA-011 HV
Detection range	Adjustable : 8, 12, 16 or 30 m (26, 39, 52, 98 ft)		
Speed range	From 0.5 km/h to 100 km/h (0.3 mph to 62 mph)		
Detection direction	Uni- or bidirectional		
User Output	2 visible LEDs on front face - 1 relay contact Hold time: 750 ms		
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	Double-L (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 (0.77 lb)	0.460 kg (1.01 lb)	0.485 kg (1.07 lb)

