



## Counting bicycles: measuring is knowing

### THE TMA-3B3 COUNTS THE BICYCLES WITH HIGH ACCURACY, AUTONOMOUSLY, EVERYWHERE AND ALL THE TIME

- ✓ Use of bike paths study
- ✓ Individual speed measurement for safety facilities assessment
- ✓ Permanent or temporary measurement point

#### SAVINGS ON BUDGETS FOR

- Road digging
- Security
- Intervention

#### HOW DOES IT WORK?

The TMA-3B3 combines the radar and lidar technologies to count the bicycles on bike lanes with high accuracy, even in groups. It measures as well the speed. The data can be sent to a server using a modem or stored locally on an SD card.

### 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 CONDITONS

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

#### NOMAINTEANCE

Nocalibration

### ADVANTAGES



- ✓ Accuracy: 97 % in rush hour
- ✓ Ability to count bicycles in a group
- ✓ Non intrusive technology
- ✓ Autonomous and mobile
- ✓ Day and night equal performance

## 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 (on compact housing)
- Delivered ready to install, i.e. including cable, fixing support, screws and bolts

	TMA-3B3 STANDARD HOUSING	TMA-3B3 COMPACT HOUSING	TOTEM
Mounting system	Specific system supplied, adapted to M8		4 threaded rods, to be mounted on concrete slab
Dimensions (mm)	L 230 x H 245 x D 270 (excl. mounting bracket)	L 68 x H 99 x D 119 (incl. connector)	L 463 x H 2600 x D 259 (incl. solar panel)
Weight	3 100 g, 5 m cable incl. Bracket: 750 g	475 g; bracket: 435 g; 5 m cable: 450 g	50 kg incl. battery, anchor plate and solar panel
Material	ABS plastic & stainless steel	Aluminium & stainless steel	Coated stainless steel
Detection range	Adjustable - Up to 6 m		
Max. bicycle path width	4 m		
Detection direction	Bidirectional		
Max. speed for detection	40 km/h (optional: 55 km/h)		
Min. radial speed for target validation	3 km/h		
Operating temperature	from -20 °C to +60 °C		
Consumption	130 mA @ 12 V DC		
Power supply	12 V battery, powered by solar panel or public lighting		
User input/output	Input: RS-232 - Output: RS-232 + 4G modem or SD card storage		
Frequency LIDAR wavelength	K-band: 24.165-24.235 Ghz 905 nm		

## OPTIONS

- Solar power, incl. solar panel and solar regulator
- 4G modem or SD card storage
- 3 different housings:



• Standard housing



• Compact housing



• TOTEM: sensor, solar panel, modem and battery are fully integrated in one elegant stainless steel casing, making it easy to install, robust and fully autonomous.



### STANDARDS

- Directive 2014/53/EC
- Lidar classified EN/IEC 60825-1 2014

### C&T TECHNOLOGY

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**TMA-3B3**