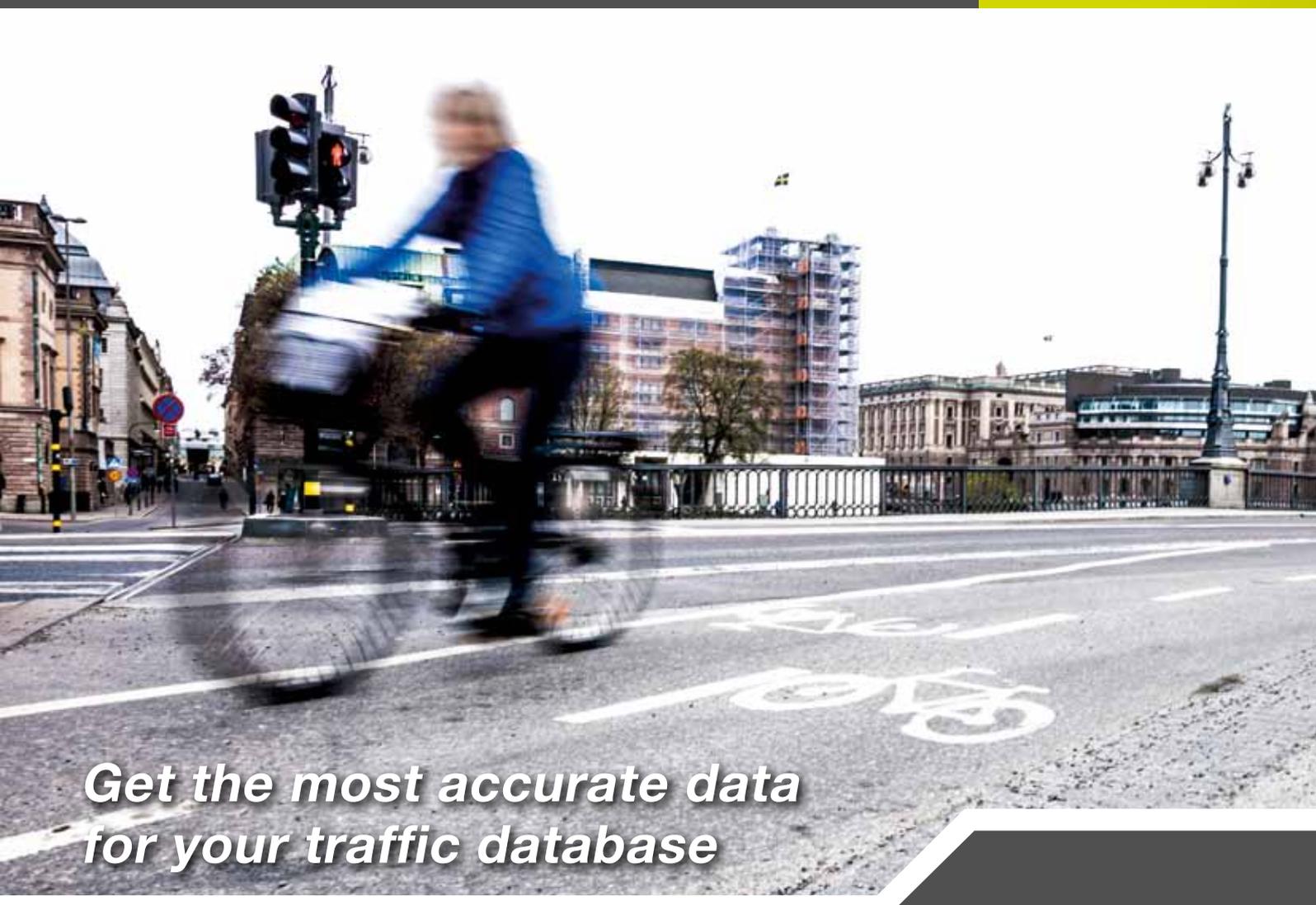




**Intelligent
Transportation Systems**



**eco
counter**[®]
COUNTING PEOPLE, ANALYSING DATA



***Get the most accurate data
for your traffic database***



ZELT Counter

Highly accurate in any situation



Patented Technology

The ZELT is more than just an inductive loop. It is the most accurate and reliable counting solution for bicycles. It precisely analyzes the electromagnetic signature of each bicycle wheel using SIRIUS, a patented algorithm based on 13 differentiation criteria. This unique technology makes it easy for the ZELT to detect all types of bicycles with high accuracy while ignoring cars, motorcycles and large vehicles on roads with mixed traffic.

Accurate, robust and versatile

- Counts all types of bikes including bikes with carbon fiber frames.
- Compliant with any type of installation (in asphalt, concrete, under bricks, gravels, etc.).
- Over 95% accuracy in any condition (shared road, mixed traffic, bike lane or protected bike path).
- Measures bicycle speed and direction of travel.
- Can be scaled from narrow bicycle lanes to wide boulevards.
- Works in all weather conditions (ice, snow, rain, wind, high and low temperatures).
- Self-calibrating, insensitive to changes in magnetic fields such as foot traffic and parked cars.
- Low maintenance.
- Invisible, eliminates the risk of vandalism.



World's leading technology for on- and off-street bike counting

- Worldwide recognition (over 12,000 counters installed in 45 countries). New York, Paris, Portland, Sydney, Dublin, Stockholm, Montreal, Berlin, Mexico, Oslo, Zürich, San Francisco and more.
- 10 years of continued improvement from feedback in-the-field.
- Reliable in any type of traffic (mixed traffic, groups of cyclists) thanks to its flexible and patented algorithm with fine-tuned setting options.
- Over 100 installations with accurate real-time display of bicycle data to the public (with the Eco-TOTEM).



ITS Range

From simple signal actuation to real-time data recording

	ACCURATE DETECTION	ACCURATE COUNTING		
	Detection Module	Relay + Connex	Eco-Combo + Connex	ComEth
	Detection & Safety Accurate sign actuation	Real-time data in your traffic controller (Solid-State Relay)	Solid-State Relay + local recording + 2/3G connectivity	API + IP/Ethernet + local recording + Timestamp

Dimensions	70 x 50 x 20 mm (3" x 2" x 1/2")	113 x 83 x 43 mm (4.5" x 3" x 1.5")	113 x 83 x 43 mm (4.5" x 3" x 1.5")	132.5 x 36 x 210 mm (5" x 1.5" x 8.5")
Operating temperature	-40 °C to +70 °C -40 °F to +160 °F	-40 °C to +70 °C -40 °F to +160 °F	-40 °C to +70 °C -40 °F to +160 °F	-40 °C to +70 °C -40 °F to +160 °F
Power supply	12 V / 10 W	12 V / 10 W	12 V / 10 W	24 V / 30 W
Sensor to interface distance	Max: 4 m (15')	Max: 150 m (500')	Max: 150 m (500')	Max: 150 m (500')
Max sensing width	4 Loops (up to 6 m / 19'5")	4 Loops (up to 6 m / 19'5")	8 Loops	8 Loops
Data output	3 outputs (IN / OUT / TOT) Directional (No counting data)	4 configurable outputs or (IN / OUT / TOT) Directional	4 configurable outputs or (IN / OUT / TOT) Directional Speed classification	4 configurable outputs or (IN / OUT / TOT) Directional Speed classification
Data transmission	Solid-State Relay (SSR)	Solid-State Relay (SSR) / Relay	Solid-State Relay (SSR) / Relay Bluetooth 2/3G Modem	Solid-State Relay (SSR) / Relay 3G/4G/Wi-Fi Connectivity (external routers) TCP/IP-Ethernet
Local recording			Internal memory 330 to 640 days 15 or 60 minutes recording	Internal memory > 10 million records Real-time recording (timestamp / hh:mm:ss)
Data restitution interval			15 or 60 minutes	Fully settable via API
Additional features			Cloud-based analysis software + automatic alerts	Cloud-based analysis software + automatic alerts Embedded Webserver Telemaintenance (IP) Client API

Did you know?

The ZELT has originally been developed as a waterproof standalone solution, ideal for remote locations with no power source.

For sites without ITS requirements, our ZELT counters can be delivered with a long-lasting battery (up to 2 years). This counter is IP 68 waterproof and can seamlessly transmit data (3G) to our cloud-based analysis software or to your own database via FTP transfer without any external power nor wiring.



ComEth: Real time recording and data transmission



- ⊕ Designed for urban environments
- ⊕ TCP/IP connectivity
- ⊕ Timestamp (date, time, direction and type of user)
- ⊕ JSON/REST client API
- ⊕ Embedded webserver
- ⊕ Remote maintenance & sensor settings
- ⊕ Internal memory > 10 million recordings
- ⊕ Compliant with pedestrian, bicycle and multi-user counters



Compliant with any Eco-Counter Sensor

CITIX-IR

- ⊕ High accuracy infrared pedestrian sensor
- ⊕ No privacy issue*
- ⊕ Works in all weather conditions
- ⊕ Counts dense groups of people
- ⊕ Measures direction of travel
- ⊕ Range up to 12 m (40')

ZELT

- ⊕ High accuracy bicycle sensor
- ⊕ Cycle tracks, bike lanes and mixed traffic
- ⊕ Direction and speed classification
- ⊕ Counts all bikes including bikes with carbon fiber frames or fat tires

PYRO

- ⊕ Infrared pedestrian sensor
- ⊕ Sidewalks, trails and other walkways
- ⊕ Measures direction of travel
- ⊕ No privacy issue*

MULTI

- ⊕ Combines ZELT and PYRO technologies
- ⊕ Differentiates between pedestrians and cyclists
- ⊕ Measures direction of travel
- ⊕ No privacy issue*

**our sensors do not record any images or personal information*



4, rue Charles Bourseul
22300 Lannion France
Tel (+33) 2 96 48 48 81
Fax (+33) 2 96 48 69 60

604-3981 St-Laurent Blvd
Montreal, QC H2W1Y5, Canada
Tel: 514-849-9779
Toll Free: 866-518-4404

Worringer Str. 30
50668 Köln, Deutschland
Telefon: +49 (0) 221-677-7474-09
Mobil: +49 (0) 179-522-39-99

eco-counter@eco-counter.com
www.eco-counter.com

