

**Intelligent
Transportation Systems**



***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 setttable 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

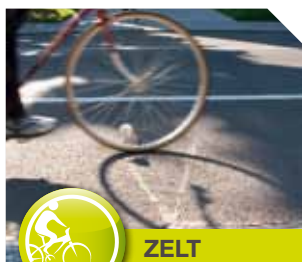


Compliant with any Eco-Counter Sensor



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