

PNEUMATIC TUBES

Two Pneumatic TUBE sensors are laid over the road or bicycle lane, perpendicular to traffic flow. The system automatically monitors the speed and distance between the two bicycle wheels. With this information, the Pneumatic TUBE sensors are able to distinguish bicycles from motorized vehicles in mixed traffic, extract directional data and accurately count the number of cyclists in a group.

- + Mobile or semi-permanent
- + Battery powered
- + Seamless data transmission



General Characteristics

Technology	Piezoelectric
Battery Life	<ul style="list-style-type: none"> + With automatic data transmission option: 2 years + With manual data collection: Up to 10 years
Calibration	Self-calibrating
Covered Width	Up to 9 m (354") (2 x 9 m (354") with stopper in the middle)
Waterproofness	IP 68
Data Backup	60-minute or 15-minute data recording interval
Memory	> 20 Months
Power consumption	0,5 mW
Accuracy	± 3% with optimal conditions

Physical Characteristics

+ Pneumatic TUBEs

Diameter	<ul style="list-style-type: none"> + Classic TUBEs (for installation on shared roads): 15 mm (0.5") + Mini-TUBEs (for installation on greenways): 9 mm (0.35")
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Waterproofness	IP 68
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Material	Rubber
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+ Stainless Steel Box

Dimensions	l = 33 cm (13") / w = 23 cm (9") / h = 8 cm (3")
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Weight	5 kgs (11 lbs)
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Material	Stainless steel
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+ Shock Absorber*

Length	150 cm (59")
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Diameter	15 mm (0.5")
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Material	Rubber
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*Shock absorbers are supplied only with Mini-TUBEs for greenways



Mobile or semi-permanent
< 3 months



Stainless steel
box

PNEUMATIC TUBES

TUBEs Greenways



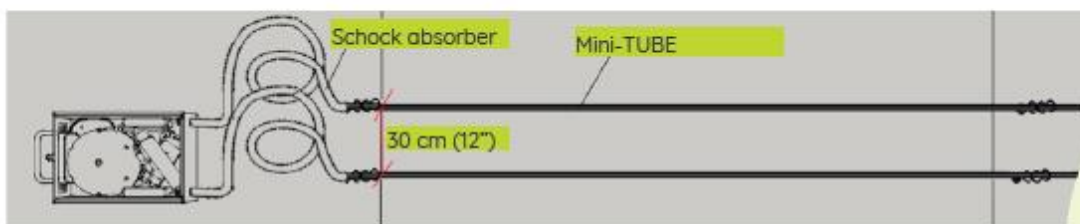
- + Specifically designed to monitor bicycles on dedicated bicycle lanes and greenways
- + Mini-TUBEs to maximize cyclist comfort
- + Specific filter to ensure an accuracy of +/- 3%, even for groups of cyclists
- + Count bikes passing side-by-side or closely following each other

TUBEs Selective



- + Temporary monitoring of bicycles on roads in mixed traffic (bicycle lanes, shared bicycle/bus lanes)
- + Ignore motorized vehicles (fast scooters, motorbikes, cars, and buses)
- + Count only bicycles, even in heavy traffic
- + A special insert in the TUBE dismisses signal rebounds that may be generated by a fast car or truck

Installation Example



**CLASSIC TUBES
-
INSTALLATION ON
BICYCLE LANE**