

Piezoelectric Axle Sensor



Class I & Class II Piezo Axle Sensor

The **RoadTrax Brass Linguini BL Piezo Traffic Sensor** is designed by TE Connectivity for permanent or temporary installation into or onto the road surface for the collection of traffic data. **The unique construction of the sensor allows direct installation into the road in a flexible format so that it can conform to the profile of the road.** The flat construction of the sensor gives an inherent rejection of road noise due to road bending, adjacent lanes, and bow waves of approaching vehicles. The small cut in the road minimizes the damage done to the road, speeds up the installation and reduces the amount of grout used for the installation.

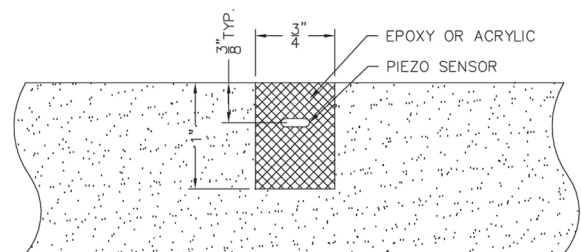
The RoadTrax BL sensor is available both as a class I sensor for the highest level of uniformity needed for weigh in motion applications and as a class II sensor which is more cost effective for counting, classifying, high speed toll booths, speed detection, and red light cameras.

Features

- High Output Signal for Cars, Trucks, Motorcycles & Bikes
- Conforms to Any Road Profile and Coils to 2' x 2' (600mm x 600mm)
- Sensors Can Be Mounted Permanently or Temporarily
- Tested to 40 Million Equivalent Single Axle Loadings
- Cable Lengths to 500' (150m) are Waterproof for Direct Burial
- Piezo Sensors Lengths 6', 8', 9', 10', 11' & 12'
- Metric Sensor Lengths 2.0, 2.5, 2.75, 3.0, 3.5, 4.0, 4.5, 5.0 and 5.5 meters



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Installs in a 3/4" x 1" (19 x 25mm) Saw Cut in the Road Surface

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Technical Specifications

Characteristics for Permanent Road Installation	
Output Uniformity	±20% for Class II (Classification), ±7% for Class I (Weigh in Motion)
Operating Temperature Range	- 40 to 160°F (-40 to 70°C)
Typical Output Level	A wheel load of 400 pounds will produce a minimum output signal of 250 mV, at 70°F and 55 mph (89 kph) for a proper installation
Passive Signal Cable	RG 58C/U with a High Density Polyethylene Outer jacket that is rated for direct burial; 3/16" (4.75mm) OD.
Product Life	40 Million ESAL's; dependent on the installation
Capacitance (12' class II with 100' cable)	8.50 nF ≤ C ≤ 14.50 nF
Weight (12' class II with 100' cable)	3.00 lbs (1.36 kg)
Insulation Resistance	>500 MΩ
Packaging	All sensors are packaged two per each 24"x20"x3" (600x550x75mm) cardboard box
Installation Brackets	Included. One bracket is used every 6" (150mm)



Flexible and easily transported, the sensor may be rolled for shipping



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