

# ROADTRAX BL TRAFFIC SENSOR

PIEZOELECTRIC AXLE SENSOR  
PRODUCT GUIDE

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## PIEZOELECTRIC AXLE SENSOR PRODUCT GUIDE

TE Connectivity's (TE) RoadTrax Brass Linguini (BL) traffic sensor is designed 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, Open Road tolling, speed detection, and red light cameras.

### Great Signal

- Positive signal as tires pass over the sensor
- Good dynamic range - works with large to small vehicles
- Reduced road flexing noise
- High signal to noise ratio for ease of signal processing
- High capacitance - can drive long cables
- Works even for slow speeds

### Easy to Handle

- Conforms to many road profiles
- Coils in a 2'x2' (600x600mm) box
- Rugged so that it does not break with handling

### Easy Installation

- Installs in a 3/4" x 1.5" (19 x 38mm) cut in the road to minimize damage to the road
- Shallow installation possible, please contact us
- Installs with fast curing, acrylic, or appropriate polyurethane
- Smaller cut means less encapsulation material

### Quality

- Sensors are tested for capacitance, insulation resistance, piezo activity any uniformity
- Computerized process controls all in house piezoelectric materials used
- All sensors are serial numbered for traceability

### Durability

- Triple sealed coax splice between the sensor and the passive cable
- The sensor will not be damaged by bending to a radius of > 3" (75mm)
- Will withstand normal handling
- Tested to 40 million equivalent single axle loadings

### Great Passive Cable

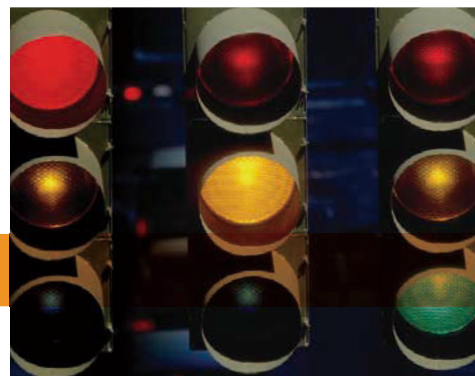
- Super tough High Density Poly Ethylene (HDPE)
- Rated as waterproof for direct burial

### Versatility

- Same sensor for over and in the road applications
- Can be used in portland cement or asphalt
- Available in many lengths - both english and metric - with cable lengths from 100' to 300' (35m to 100m). Longer lengths available on custom basis

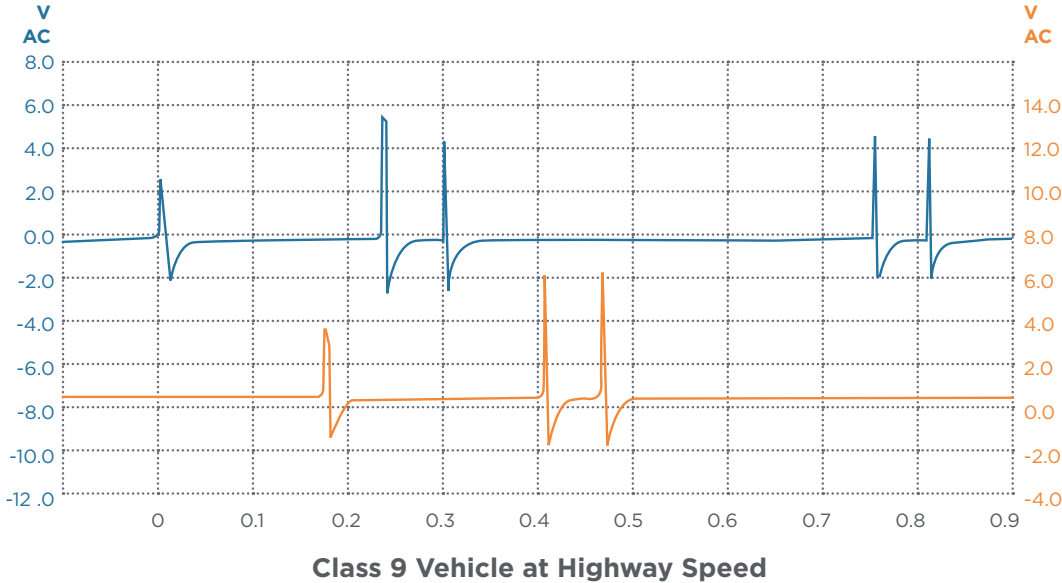
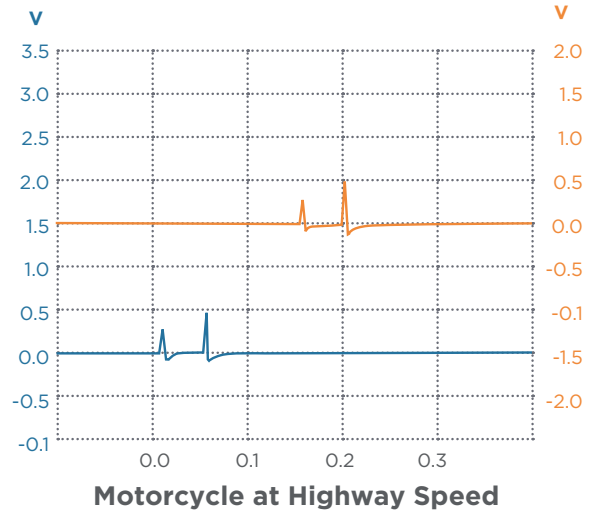
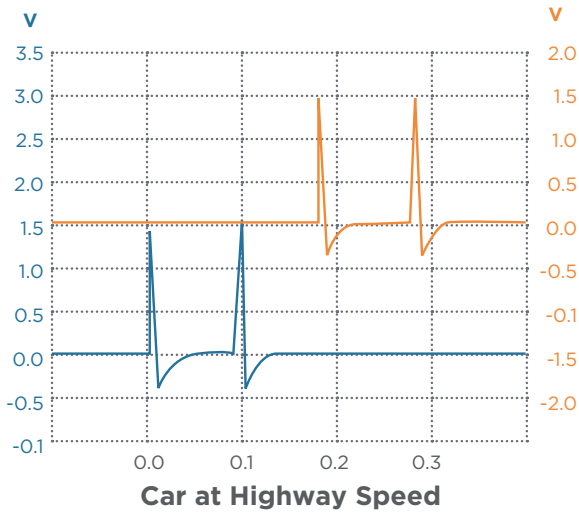
### Customer Support

- Fast delivery - units in stock
- Installation clips included with all sensors
- Installation instructions included with all sensors
- Available internationally
- Onsite installation training available





## Output Waveforms



### te.com/sensorsolutions

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### TE SENSOR SOLUTIONS

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