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, high speed toll booths, speed detection, and red light cameras.

- STRONG SIGNAL
- EASY TO HANDLE
- SIMPLE INSTALLATION
- HIGH QUALITY
- DURABLE
- GREAT PASSIVE CABLE
- VERSATILE
- READILY AVAILABLE
RoadTrax BL TRAFFIC SENSOR

Strong 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 any road profile
• Coils in a 2’x2’ (600x600mm) box
• Rugged so that it does not break with handling

Simple Installation
• Installs in a 3/4” x 1” (19 x 25mm) cut in the road to minimize damage to the road
• Deeper installation possible, please contact us
• Installs with fast curing epoxy, acrylic, or appropriate polyurethane
• Smaller cut means less encapsulation material

High Quality
• All sensors are 100% tested for capacitance, insulation resistance, piezo activity and uniformity
• Computerized process controls the extrusion and polarization of the cable
• All sensors are serial numbered for traceability

Durable
• Triple sealed coax splice between the sensor and the passive cable
• The sensor will not be damaged by bending to a radius of > 1’ (300mm)
• 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

Specifications

The TE BL Traffic sensor has the following specifications:

- Center Core: 16 gage, flat, braided, silver plated copper wire
- Piezoelectric Material: Spiral-wrapped PVDF Piezoelectric film with a nominal Piezoelectric Coefficient of 34 pC/N
- Outer Sheath: 0.016” thick brass, CDA-260, ASTM B587-88
- Final Dimensions: 0.260” wide x 0.063” thick; 0.005”
- Passive Signal Cable: RG 58 type with an underground/direct burial rated outer jacket. The OD of the cable is 0.187” (4.75mm). The nominal capacitance of the cable is 27 pF/ft (89pF/m)
- Two sizes of installation brackets are included with the sensors, 3/4” (small) brackets and 1” (large) brackets. There is one small and one large bracket per 6” (150mm) of sensor length

Notes:
1. Capacitance value will change with the length of the sensor and the length of the passive cable. Provided with each sensor is a test certificate with the actual tested value for the sensor.
2. All sensors are packaged 2 per box. The box weighs 1.5 lbs (0.7 kg). Sensors with cable longer than 200 ft. are packaged 1 per box.
3. Although TE makes every effort to ensure the accuracy of the specifications at the time of publication, specifications for this product are subject to change without notice.

te.com/sensorsolutions
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