

## Roadtrax BL

### MANUFACTURER AND VENDOR INFORMATION

Effective Date: \_\_\_\_\_

Manufacturer name: AMP Sensors

Sales representative name(s): \_\_\_\_\_

Donald Halvorsen, Product Manager

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URL address: amp.com/sensors

**PRODUCT NAME/MODEL NUMBER:** Roadtrax BL

**FIRMWARE VERSION/CHIP NO.:**

**SOFTWARE VERSION NO.:**

**GENERAL DESCRIPTION OF EQUIPMENT:** Flexible, thin, piezoelectric traffic sensors for permanent and temporary use.

**SENSOR TECHNOLOGY AND CONFIGURATION:** The base technology is piezoelectric polymer. The BL sensor, which stands for Brass Linguini, is a highly compressed piezoelectric polymer in a coaxial configuration, with a brass outer casing. The BL is flat, about 1/16" (1.5 mm) thick and 1/4" (7 mm) wide. The sensors are put into the road in a 3/4" (19 mm) wide and 1" (25 mm) deep slot cut into the road, being held in place during the installation using supplied installation clips. The slot is then filled with a hard epoxy or acrylic encapsulation material. Sensors range in length from 6' (1.85 m) to 18' (5.5 m), with 6' or 8' sensors are used for WIM. Cable lengths are from 100' to 300' in 50' increments, with custom lengths up to 1000'.

**SENSOR INSTALLATION:**

**INSTALLATION TIME (Per Lane):** 1 to 2 hours per lane, for installing two piezo sensors and an inductive loop.

**INSTALLATION REQUIREMENTS:** The sensors should be installed in good quality road material. The BL sensor will accommodate any rutting, so flatness across the width of the road is less critical. The key requirement for installation is a concrete cutting saw that can cut a 3/4" wide slot in a single pass.

**MAXIMUM NUMBER OF LANES MONITORED SIMULTANEOUSLY:** 1

**PRODUCT CAPABILITIES/FUNCTIONS:** Class I uniformity +/- 7%; Class II uniformity +/- 20%. These figures indicate the uniformity along the length of the sensors. Accuracy for speed is +/- 1% with proper installation. Classification accuracy is +/- 1% with proper installation is a Piezo – Loop – Piezo configuration.

**RECOMMENDED APPLICATIONS:**

**POWER REQUIREMENTS (watts/amps):** N/A

**POWER OPTIONS:** N/A

**CLASSIFICATION ALGORITHMS:** N/A

**TELEMETRY:** N/A

**COMPUTER REQUIREMENTS:** Compatible with all commercial AVC and WIM systems with a piezoelectric input.

**DATA OUTPUT:** N/A

**DATA OUTPUT FORMATS:** N/A

**SUPPORTING DATA BASE MANAGEMENT SYSTEM:** N/A

**EQUIPMENT AND INSTALLATION COSTS (One-lane and four-lane):**

Sensors range from \$350 for 6' Class II to \$1100 for 12' Class I. The costs for the complete installation will vary based on number of sensors installed per lane (P-L-P vs L-P-L), class I or class II, sensor length, epoxy used, traffic control, local requirements, the experience of the installation crew, etc.

**STATES CURRENTLY USING THIS EQUIPMENT:**

<u>Country/State</u>	<u>Contact name</u>	<u>Telephone number</u>
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Throughout the US, Canada, Europe, South America, Asia, Africa, New Zealand and Australia.