

## Sensorline Fiber Optic Sensors

# EZ-Treadle Fiber Optic Sensor Insert

*Fiber Optic Sensor Technology by Sensorline GmbH*

The fiber treadle insert offered by Measurement Specialties, Inc. is a compatible fiber optic sensor solution for conventional steel treadle frames. Techniques have also been developed for the installation of the sensor directly into the road, yet still have it fully replaceable.

Designed specifically for the toll industry to be installed in the highest volume toll lanes and high-speed lanes, the Sensorline EZ-Treadle fiber optic sensors offer unmatched reliability and lifetime while matching the accuracy of today's best toll treadle solutions. Combined with Sensorline's state of the art interface board, the fiber optic sensors can be seamlessly integrated into any lane hardware system with no modifications.



The fiber treadle insert is made from an industry proven hard polymer material making it much lighter and easier to install than conventional treadle inserts. The fiber treadle insert has the capacity for 1-4 fiber optic sensors for compatibility with any existing system or for any level of redundancy. The fiber optic sensors are embedded into the insert at the factory to reduce the installation time and increase the overall reliability of the treadle system.

## FEATURES

- ❖ Available in a variety of lengths and widths, including ones compatible replacement for existing 10 foot TRMI style 4-strip treadles.
- ❖ Strong, lightweight insert for ease of installation.
- ❖ Sensors pre-embedded into insert at factory for highest reliability
- ❖ Easily manufactured with 1-4 sensors to meet existing system requirements.
- ❖ Long lifetime (> 5 years)

## Application

Toll Road Plaza Axle Detection

**measurement**  
SPECIALTIES

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## specifications

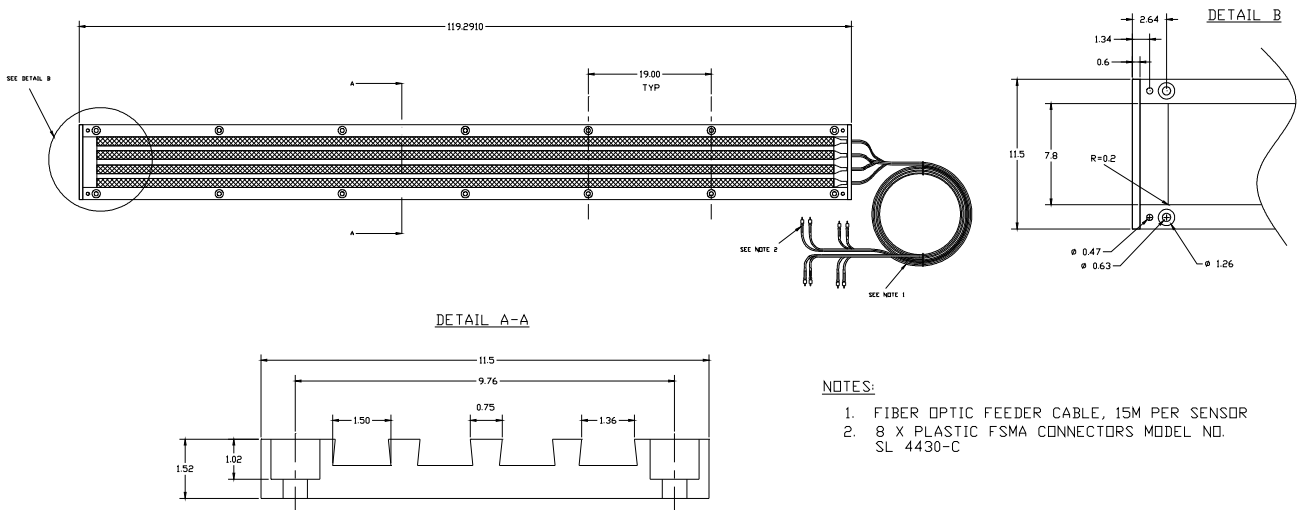
### mechanical

Insert Length	Multiple lengths available
Insert Width	Multiple widths available
Insert Depth	Typical 1.77" (45 mm)
Active Sensor Length	Treadle Dependent
Connections	FSMA Plastic SL 4430-C

### performance

Storage Temperature Range	-40...+85 °C
Operating Temperature Range	-30...+85 °C
Minimum Calculated MTBF of Sensors	5 years
Minimum # of load cycles for Sensors	Tested to 25 million without failure
Sensitivity of Sensors	10% Typical Light Loss – Car Axle

mechanical drawing (shown for a 4 sensor treadle.  
Dimensions will vary based on design)



## ordering information

Hampton, VA 23666