

Qwik-Sense©Permanent Road Sensor

MANUFACTURER AND VENDOR INFORMATION			
Effective Date:		November 1, 2002	
Manufacturer Name:		Sales Representative Name (s):	
Optical Sensors and Switches		Jonathan Lang	
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PRODUCT NAME/MODEL NUMBER: Qwik-Sense©Permanent Road Sensor, with integral mounting bracket (Part # QWIK-6) for 6'6" or (# QWIK-11) 11'6" sensors.

FIRMWARE VERSION/CHIP NO.: N/A

SOFTWARE VERSION NO.: N/A

GENERAL DESCRIPTION OF EQUIPMENT: Fiber-optic type road sensor 19.5 mm (.75") X 19.5 mm (.75") X 6.5 feet or 11.5 feet length. Integral 15 cable.

SENSOR TECHNOLOGY AND CONFIGURATION: Fiberoptic sensor technology. When a wheel load is applied to the sensor, a small amount of light escapes from sensor fiber, causing the light level at the sensor output to decrease. The amount of the light is compared to a factory set reference by the optical interface for producing an output signal. The resultant signal can be used with a standard classifier to determine vehicle speed and classification.

SENSOR INSTALLATION: Qwik-Sense© sensors are made for easy and uncomplicated installation. After lane is closed:

- Using a concrete saw cut a .19 mm (3/4") wide by 19 mm (3/4") deep by 6.5 foot or 11.5 foot long groove in road surface.
- Groove is cleaned out with compressed air.
- Next, apply two each 2" wide duct-tape on road top on both sides of cut. This will ensure easy clean up of Installation Sealant (Part # SEAL-6).
- Mix two part OSS Installation Sealant Kit (Part # SEAL-6) and pour into pre-cut groove.
- Place sensor into groove. Excess sealant will flow from under installation bracket. Place a weight on sensor to ensure mounting wings are flat and contoured with road top.
- After sealant is set, tear off bracket wings and sand sensor flush with road surface with belt sander.
- Place leads into 0.25 inch saw cut, and route to cabinet. Fill grooves with sealant.

INSTALLATION TIME (Per Lane): Two hours per lane after lane closure.

INSTALLATION REQUIREMENTS:

MAXIMUM NUMBER OF LANES MONITORED SIMULTANEOUSLY: No limit or maximum distance.

PRODUCT CAPABILITIES/FUNCTIONS: Traffic counts, vehicle classifications, 13 FHWA classes, and speed of vehicle.

RECOMMENDED APPLICATIONS: Long term traffic data collection, axle counts, classification, and speed.

POWER REQUIREMENTS (watts/amps): N/A

POWER OPTIONS: N/A

CLASSIFICATION ALGORITHMS: N/A

TELEMETRY: N/A

COMPUTER REQUIREMENTS: N/A

DATA OUTPUT: N/A

DATA OUTPUT FORMATS: N/A

SUPPORTING DATA BASE MANAGEMENT SYSTEM: Any traffic classification unit with a built in fiber-optic interface system will work with the FlexSense© Portable Road Top Sensors. Any traffic classifier with a piezo or switched input will also work by attaching a Qwik-Sense©Permanent Optoelectronic Interface Box (part # PMOE-6-2,4, & 6) in 12 Vdc or 110 Vac.

EQUIPMENT AND INSTALLATION COSTS (One-lane and four-lane): N/A

STATES CURRENTLY USING THIS EQUIPMENT:

Country/State	Contact Name	Telephone Number
USA/Michigan DOT	Bob Brenner	517-322-1716
USA/Iowa DOT	Don Miller	515-239-1046
USA/Arizona DOT	Mark Katchpalle	602-712-8596
USA/Idaho DOT	Brian Hagan	208-334-8250
USA/Tennessee DOT	Ray Barton	615-350-4575
USA/Maryland DOT	Barry Balzanna	410-545-5509
USA/Alabama DOT	Charles Turney	334-242-6393
USA/Wyoming DOT	Bill Gribble	307-777-4433