

We make highways talk



Introducing the New Sensor Technology

Features

- The VectorSense[™] sensor suite provides a new measurement technology for CVO, toll road operations, and traffic data collection applications.
- Each in-road sensor can be installed in a saw cut approximately 5 cm (1.96 in) wide by 4 cm (1.57 in) deep. The length can be customized to accommodate the lane width being instrumented up to 5 m (16.4 ft).
- A standard installation consists of 3 in-road sensors spaced approximately 25 cm (9.84 in) apart providing support for vehicle speed measurement and system redundancy, combined with one or two inductive loops.
- Installation, including cure time for the epoxy material, can be performed in less than four (4) hours.

VectorSense Specifications (Preliminary)

Contact Pressure Measurement Range (kPa)	0-1400
Linearity (%FSO)	≤± 2
Operating Temperature Range	-40 to +72 °C (-40 to 161.6 °F)











Footprint Data: 2D plot of the VectorSense system output for a 4-axle truck.

VectorSense™ Sensor Suite - Applications/Features Matrix

	Grout in Place or Treadle	Axle Detection	Axle Spacing Wheelbase	Speed	Single/ Dual Detection	Super Single Detection	Tire Anomaly	Tire Pressure	Axle Width	Lane Position (Stress Profile)
Bicycle Detection / Classification	GIP	~		~						
Existing WIM Performance Improvement	GIP	~	~	~	~	~				~
Toll Lanes - slow speed classification	Both	~	~	~	~	~				
Fleet Managers - Tire Anomaly Detection	GIP	~			~	~	~	~		
Access Control and Exit/Security	Both	~			~	~	~	~		
Traffic Data Collection - ASTM Type II	GIP	~	~	~	~	~	~			
Traffic Data Collection - High Performance	GIP	~	~	~	~	~	~	~		
Traffic Management - Real Time Ops	GIP	~	~	~	~	~	~	~		
Toll Lanes - slow speed sensor with WIM	Both	~	~	~	~	~	~	~		
Toll Lanes - ETC	GIP	~	~	~	~	~	~	~		
Toll Lanes - ORT	GIP	~	~	~	~	~	~	~		
Origin / Destination	GIP	~	~	~	~	~	~	~	~	
Enforcement - Tire Information (TACS w/ WIM)	GIP	~	~	~	~	~	~	~	~	~
Pavement Design & Maintenance	GIP	~	~	~	~	~	~	~	~	~



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