

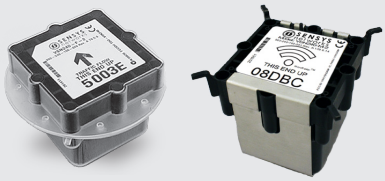




	INTERSECTION/ARTERIAL	FREEWAY
DETECTION	<ul style="list-style-type: none"> Stop bar signal actuation (autos/bikes) Advance signal actuation(autos/bikes) Adaptive signal control detection Smartphone App detection (bikes/scooters) Red light and speed violations for enforcement 	<ul style="list-style-type: none"> Ramp metering Hi-Occupancy incident detection
DATA	<ul style="list-style-type: none"> Volume, occupancy, speed, length (autos/bikes) Road temperature, including bridges Travel time, Origin-Destination Vehicle Miles/Hours Traveled Signal Performance Measures Turn Movement Counts Red Light Violations Signal Phase and Timing 	<ul style="list-style-type: none"> Freeway volume, occupancy, speed, length Lane-specific tolling data Road temperature, including bridges Travel time, Origin-Destination Reports using data from other detection (loops, video, radar)
System Management - Centralized, Automatic, Preventive		
Detection health diagnostics & Asset management		

PARKING - Space Detection and Availability

WHY SENSYS NETWORKS WINS:

Advantages (Compared to loops, video, radar)	<ul style="list-style-type: none"> • Most accurate detection - greater than or equal to loops - no occlusion like video/radar • Very precise, lane-specific detection • Easy to reach locations without power - advance, mid-block, freeways, ramps • Full or crushed conduit does not affect installation • Easy to monitor - diagnostic data and alerts for system components • Provides road temperature data as an added bonus • Single software platform for numerous applications with common hardware components
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Benefits (Compared to loops)	<ul style="list-style-type: none"> • Saves money (installation and maintenance) • Less road closure time • Less danger for workers • Less danger for public • Less congestion for traffic • Fewer public complaints • Less pollution (air, water and noise) • Less fuel consumption • Less loss to wire theft • Less rack/shelf space required • Less damage to the roads • Salvageable detection when resurfacing
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	Components	Function
Detectors 	FlexMag Sensor	Vehicle detection based on wireless magnetometer technology; installed in-pavement
	FlexRadar Sensor	Bicycle detection based on wireless MicroRadar®; installed in-pavement
	Smartphone Apps	Virtual detection based on mobile device GPS technology
	Wi-Fi or Bluetooth Monitor	MAC address detection of Wi-Fi or Bluetooth devices; pole-mounted
Radios 	Radio, FlexRadio	Wireless links to sensors and repeaters via proprietary low-powered SNP protocol; pole- or cabinet-mounted
	Repeater, FlexRP, FlexRP Solar, FlexNode	Relays transmission to extended range of sensors; solar, battery, or line-powered; pole-mounted
	Bluetooth Router	Low-latency, secure communications for Smartphone Apps; pole-mounted
Gateways 	FlexControl Card	Linux-based gateway for managing the wireless links and data processing of the sensors, and interfaces to traffic controllers and external IP networks; rack-mounted
	FlexControl Module	Linux-based gateway for managing the wireless links and data processing of the sensors, and interfaces to traffic controllers and external IP networks; shelf-mounted
	FlexAP	Linux-based gateway for managing the wireless links and data processing of the sensors, and interfaces to traffic controllers and external IP networks; pole-mounted
Interface Modules 	CC Card, EX Card	Contact closure interfaces for traffic controllers; rack-mounted
	FlexConnect	SDLC interface for TS2 traffic controllers; shelf-mounted
	FlexDetect	Monitor interface for contact closures for external detectors (i.e., loops, video, radar); shelf-mounted
	FlexCC	Contact closure interfaces for traffic controllers; shelf-mounted
Software 	SensDiag	System and components health diagnostics and alerts
	SensFlow	Volume, Occupancy, Speed, Gap, Length reports; congestion maps; traffic alerts
	SensID	Travel time, Origin/Destination, Vehicle Miles Traveled (VMT), Vehicle Hours Traveled (VHT)
	SensTurn	Turn Movement Counts; export to Synchro for signal retiming
	SensMetrics	Automated Traffic Signal Performance Measures (ATSPM's)
	GiveMeGreen App	Green phase initiation/extension for bikes; bike presence warning