



Stalker Traffic Control Sensor

The Stalker Traffic Control Sensor monitors intersection approach traffic for signal control and motorist safety.

FEATURES

- System sealed and completely weatherproof
- Tracks up to 10 vehicles simultaneously
- Proven traffic radar design
- Includes configurable alarms for distance, speed, time of arrival zones in addition to the dilemma zone alarm
- Interfaces with most traffic light systems
- 2-Year Warranty

The Stalker Traffic Control Sensor improves intersection traffic control and enhances traffic safety at roadway intersections by intelligently controlling traffic signal timing based on vehicle speed and distance.

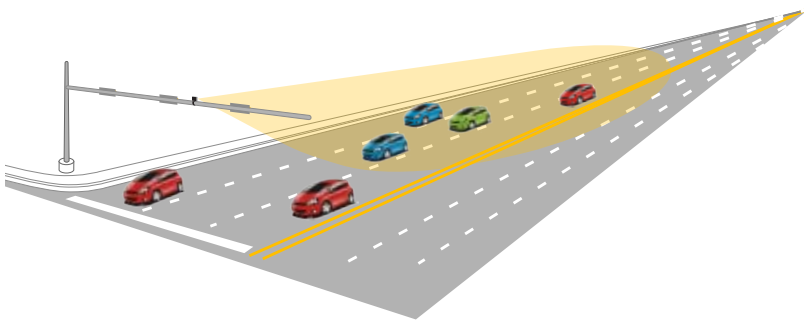
The Stalker Traffic Control Sensor has greater than 500 foot range (152.4 m) and monitors traffic approaching an intersection using Applied Concepts' Advanced Radar technology. Radar technology provides operation in all weather conditions and is more reliable, less expensive, and more flexible than traditional video camera systems, buried loop systems, or buried wireless sensor systems. In addition, the equipment is easily moved to other locations.

The sensors are easy to install and can operate stand-alone or with the existing traffic intersection control systems when paired with an Applied Concept's traffic control card.

Vehicles in a multi-lane zone are tracked, then analyzed for speed and distance to compute time until crossing the Stop Bar.

Based on its computations, the Stalker Traffic Control Sensor can:

- Notify the intersection's traffic light system of approaching traffic, allowing the system to extend the duration of the green light cycle for that direction, if necessary.
- Extend the typical 1-second "all red" signal time in the intersection for accident reduction. The speed and distance of all approaching vehicles is used to compute their respective "time to intersection".



800-STALKER

STALKER® Radar Sensors



StalkerRadar.com



Stalker Traffic Control Sensor

The Stalker Traffic Control Sensor monitors the speed and distance of approaching vehicles and provides a warning when it detects a vehicle that may not be able to stop before an impending yellow light.

Performance

Min range.....10 Feet (3.05 m)
 Max range.....>500 Feet (152.4 m)
 Resolution< 5 feet (1.52 m)
 Min speed10 MPH (16.1 km/h)
 Max speed200 MPH (321.9 km/h)
 Speed resolutiontenths
 Directionalityapproaching, receding
 Maximum simultaneous vehicles.....10
 Target update rate0.048 Seconds

Features

Alarm types: Speed, Distance, Time of Arrival, Dilemma
 Relay output: 1 N/O relay, 80 volt max
 • Solid state relay
 • Assignable to any alarm
 Serial output: 4 alarms, any type
 Internal settable delay and extension timers
 Comprehensive self tests

Communications

PrimaryRS-485
 Mode.....half or full duplex
 SecondaryRS-232
 Mode: with or without hardware flow control
 Baud rate9.6k to 115.2k
 Serial protocol
 • Vehicle ID, date, time, speed, distance, target life, signal strength, alarm state

Power

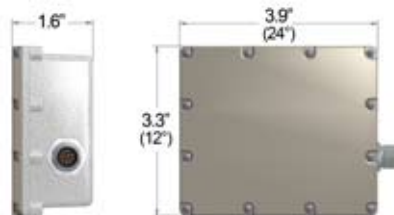
Voltage.....10 to 48 volts, AC or DC
 Current (24 volts DC).....30 mA
 Internal Resettable Fuse

Microwave

Center frequency24.125 GHz
 Frequency range100 MHz
 Transmit power.....10 mW
 Beam width.....12° by 24°

Physical characteristics

Size (LxWxD) excluding connector..3.9 x 3.3 x 1.6 inches
 (9.9 x 8.4 x 4 cm)
 Weight<15 oz. (.43 kg)
 HousingDie-cast aluminum
 Lens.....Polypropylene
 Electrical connectorM12, 12 pin
 Mounting.....4 x 10-24 UNC



Environmental

Operating temp.....-34 to +74° C
 Storage temp-45 to +85° C
 Ingress rating.....IP67

Pole mount adaptor

- Settable elevation angle
- Settable roll angle
- Built-in sighting tool
- Cable strain relief
- Adapts to Pelco Mounts
- Mounts directly to a pole using steel straps



Traffic Cabinet interface card

Compatible StandardsTS-1, TS-2, 170/2070, ITS
 Channels4
 Simultaneous sensors supported4
 Sensor interfaceRS-485
 PC interface.....Ethernet
 Communications pass-through mode for direct sensor control by PC or network without physical changes on site.

PC Application

- Sensor configuration and firmware update
- Real time tabular tracking information
- Real time graphical display
- Real time alarm conditions
- Graphical zone set up
- Data logging



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applied concepts, inc.

2609 Technology Drive ■ Plano, Texas 75074 ■ 972.398.3780 ■ Fax 972.398.3781

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