ECONOLITE

Radar Sensors for Traffic Detection

EVO RADAR

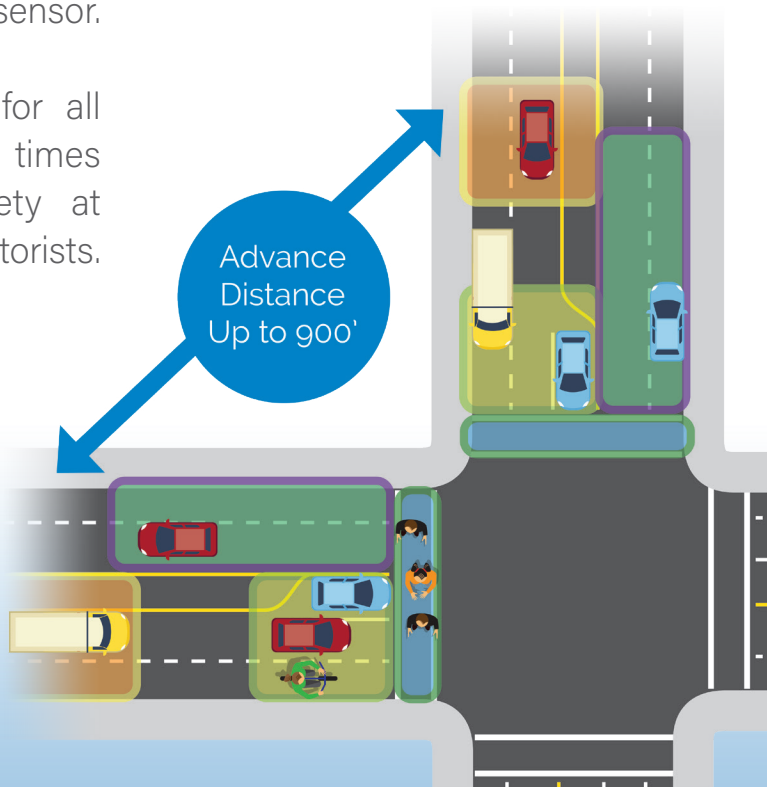
The Econolite EVO RADAR sensor is a one-stop-shop detection product that is the latest, most capable radar on the market. EVO RADAR uses forward-fire FMCW MIMO radar design and technology to achieve superior traffic detection accuracy and reliability across a variety of detection objectives, including stop bar, advance, departure, bicycle, and pedestrian detection.

The EVO RADAR sensor solution is ideally suited for a variety of intersections, using a 110-degree field-of-view designed to cover two approaches with a single sensor.

Econolite's EVO RADAR sensor is designed for all approaches, which helps to reduce travel times and traffic congestion, while increasing safety at intersections for pedestrians, cyclists, and motorists.

Key Features

- **Only 2 Sensors Needed Per Intersection, Great Value**
- **Simple to Set Up & Use**
- **900' of Detection Approach Area**
- **Departure Detection**
- **Pedestrian Detection**
- **Bike Detection**



Why EVO RADAR?

Functions & Features	EVO RADAR
900' Advance Detection	✓
Pedestrian and Bicycle Detection	✓
Multiple Approaches with a Single Sensor	✓
2 Sensors Needed Per Intersection	✓
Departure Detection	✓
Advance Detection	✓
Tracks or Detects 512 Objects	✓
120 Programmable Outputs	✓
Data	
Traffic Data: Speed & Object Classification	✓
Traffic Data: Vehicle Counts	✓
ETA Function	✓
Installation	
14-2 Grounded Cable	✓

General Data

Specification	EVO RADAR
Range	900 ft.
Horizontal Field of View Angle	110°
Max Angle to Traffic Flow	60°
Ambient Temperature	-40° to +165°F (-40° to +74°C)
Environmental Protection	IP67
Weight (approximate)	5.5 lbs
Dimensions (L x H x W)	12.1 x 5.4 x 2.81 in (308 x 136 x 71mm)
Power Supply	20-28 VDC 36 W @ 20°C
Frequency Band	24.5-24.25 GHz (K band)
Output Power	20 dBm PK / <108dBµV/m AVG*
Interface	100BaseT Ethernet
Compliance	ETSI EN 300-440, FCC part 15, RSS-310, RSS-210, SRRC, KCC, NCC
Warranty	3 Years

*Using 20dBm power output enclosure detection range. Used in specific installation ranges.

ECONOLITE

1250 N. Tustin Avenue, Anaheim, CA 92807 | 714-630-3700 | sales@econolite.com | www.econolite.com