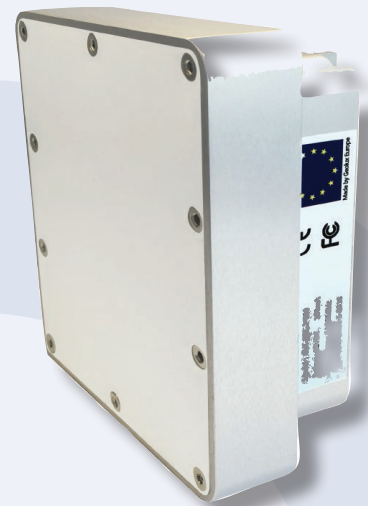


Geolux RSS-2-300 T

Speed Sensor

RADAR SENSOR
FOR TRAFFIC
MONITORING
AND LAW
ENFORCEMENT



PRODUCT DESCRIPTION

Geolux RSS-2-300 T is a Doppler radar speed sensor operating in K-band, enhanced with advanced phyTrack™ vehicle detection and tracking algorithm. Designed for traffic applications, RSS-2-300 T radar sensor reports a list of all currently detected vehicles up to 20 times per second over serial (RS-232, RS-485) or CAN interface. RSS-2-300 T sensor supports ASCII-S and GLX-NMEA serial interface data protocols, and support for more protocols can be added on customer request. Two programmable alarm outputs (signals) can directly be connected to relays. The radar can operate in low-power mode which is suitable for battery-operation. In low power mode the radar consumes as low as 660 mW of power. Field-proven Geolux RSS-2-300 T radar sensor is certified according to both European and American standards, which makes it an ideal solution for our partners that operate globally. Advanced phyTrack™ vehicle detection and tracking algorithm analyzes detected vehicle speeds in real time, and extracts precise target statistics data such as total vehicle count, average speed and road utilization. Geolux RSS-2-300 T radar sensor is available both in IP66 enclosure ready for on-site setup, and as OEM module ready for integration in your product.

HIGHLIGHTS

- Detects vehicles up to 400 meters
- Reports vehicle speed and counts
- Advanced phyTrack object tracking algorithm
- Wide measurement range from 5 km/h to 336 km/h
- Measurement precision ± 1 km/h
- Compact, low-power design (as low as 55 mA @ 12V)
- Wide input voltage range, suitable for solar applications
- Easy pole, wall or enclosure mounting
- Supports variety of communication interfaces (RS-232, RS-485, CAN, Alarm open-drain outputs)
- IP66-rated enclosure (for outdoor applications and harsh environments)
- K-band 24.125 GHz or 24.200 GHz option
- Configurable approaching, receding or both directions
- PC application for radar setup and live monitoring
- Optional camera integration

Geolux is a company based in the European Union that develops and manufactures radar sensors for use in traffic, security and hydrology applications.



DETAILED SPECIFICATIONS

GENERAL

Radar Type	K-band 24.125GHz/24.200GHz Doppler radar, 27 dBm EIRP
Beam Angle	12° Azimuth, 24° Elevation
Detection Distance	400 m
Speed Range	5 km/h to 336 km/h
IP Rating	IP66

INTERFACE

Serial Interface	1 x serial RS-485 half-duplex 1 x serial RS-232 (two wire interface)
Serial Baud Rate	1200 bps to 115200 bps
Serial Protocols	ASCII-S, GLX-NMEA
CAN Interface	Up to 1Mbps CAN2.0
Alarm Outputs	2 x open collector, max 50V 200mA
Connector	M12 circular 12-pin

ELECTRICAL & MECHANICAL

Power Input	9 to 27 VDC
Power Consumption	< 1,35 W (typical 0,9 W)
- in low-power mode	0,66 W
Maximal Current	< 250 mA
Temperature Range	-40°C to +85°C
Enclosure Dimensions	110 mm x 90 mm x 50 mm

CERTIFICATIONS

EN 50293:2000
EN 61000-6-2, EN 61000-6-4:2007
EN 61000-3-2:2006 +
A1:2009 + A2:2009
EN 61000-3-3:2008
EN 300 440-1, EN 300 440-2
FCC Part 15 Subpart C

