

# GEOLUX RSS-3-150CS FMCW RADAR DETECTOR

LIGHTWEIGHT • PRECISE TARGET LOCATION • FOR ALL ENVIRONMENTS

## PRODUCT FEATURES

- Detects both static and moving objects up to 150m for walking humans and up to 500m for average vehicles
- Compact, low-power, robust IP66 design
- No moving parts
- Precise angle and distance measurement for each detected target
- Target size estimation
- Advanced phyTrack object tracking algorithm that guarantees extremely low number of false alarms
- Configurable zones of interest / ignore zones
- Integrated accelerometer and magnetometer sensors for automatic heading and tilt measurement
- Optional GPS/GLONASS/GALILEO location module
- Possible integration with thermal and optical cameras for intruder tracking and classification



## INTRODUCTION

Geolux RSS-3-150CS is a FMCW radar detector operating in K-band, enhanced with advanced phyTrack object detection and tracking algorithm. Very robust design and low-power consumption together with ability to locate and track both static and moving objects makes RSS-3-150CS ideal for various outdoor applications. Detected objects are reported over Ethernet interface with speed, distance from the radar, angle to the radar and size estimate for each detected object separately. In addition to the Ethernet communication, serial communication (RS-232 or RS-485) and additional two configurable open-collector alarm outputs are available for indications of the intrusion detection.

## PRODUCT SPECIFICATION

### GENERAL

Radar Type	K-band 24.125GHz FMCW radar, 27dBm EIRP
Beam Angle	7° Elevation, 30° Azimuth
Detection Distance	Human (RCS 1m <sup>2</sup> ) 150m Vehicle 500m
Speed Range	0 km/h to 336km/h
IP Rating	IP66

### INTERFACE

Serial Interface	1 x serial RS-485 half-duplex 1 x serial RS-232 (two wire)
Serial Baud Rate	1200 bps to 115200 bps
Ethernet Interface	10/100 Mbps
Alarm Outputs	2 x open-collector, max 50V 200mA

### ELECTRICAL

Power Input	9 to 27 VDC
Power Consumption	< 6,0W (typical 5,4W)
Maximal Current	< 750 mA
Temperature Range	-20°C to +70°C