

RSD-300AT

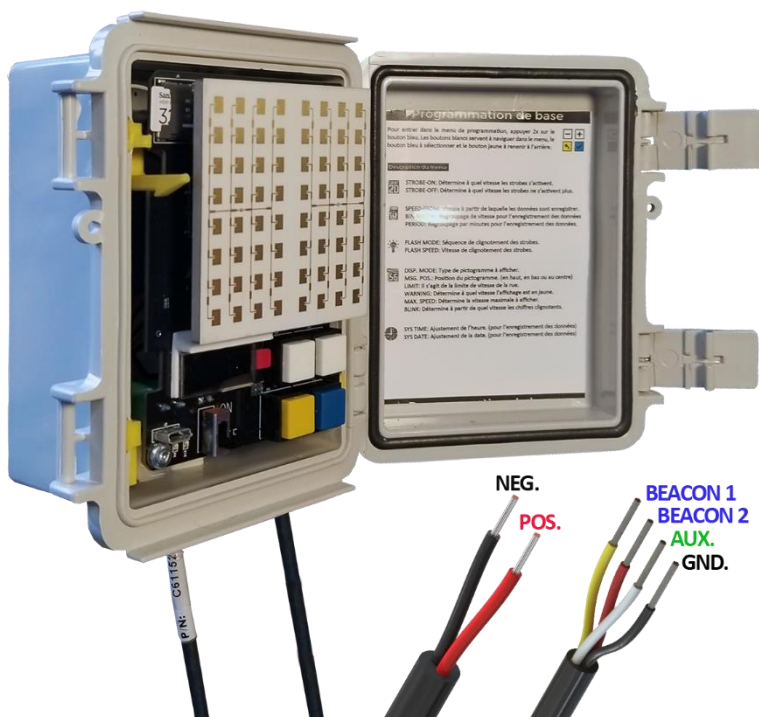
Doppler Radar Sensor with traffic data collection

Traffic Studies made easy and affordable

RSD-300AT is a revolutionary Integrated OEM Doppler Radar Sensor module designed to provide Smart Cities, Traffic and Industrial safety Engineers, Traffic Signs manufacturers and Integrators of Traffic Signalization Systems with a powerful and convenient tool to achieve a new level of functionality and interactivity.

RSD-300AT detects vehicles (typically speeding vehicles) and activate a warning system which can include a pair of beacons/strobes (various flashing patterns available) and one auxiliary devices (e.g.: security panels, audible alert, light, etc.) each with an individual threshold. Various flexible thresholds can be programmed using schedules and calendars function.

In addition to this, RSD-300AT is capable of collecting traffic data during a virtually unlimited period of time. All information is recorded on removable SD-Card in easy-to-process CSV files compatible with Microsoft Excel.



Applications

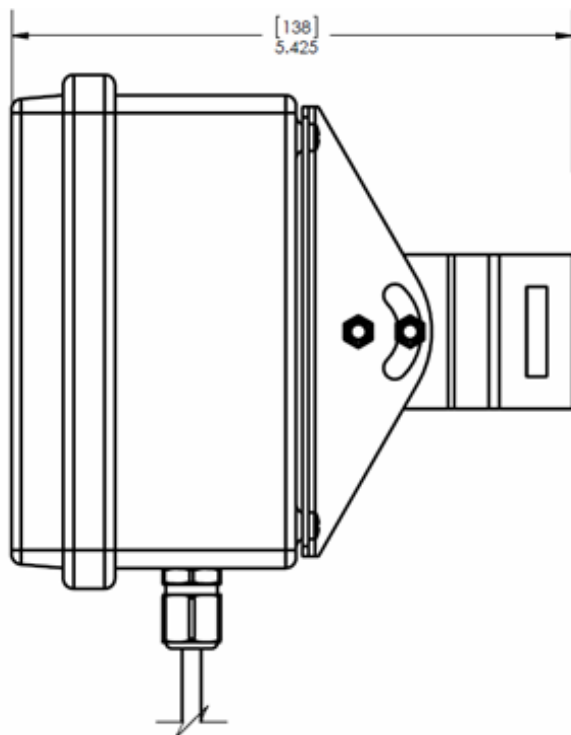
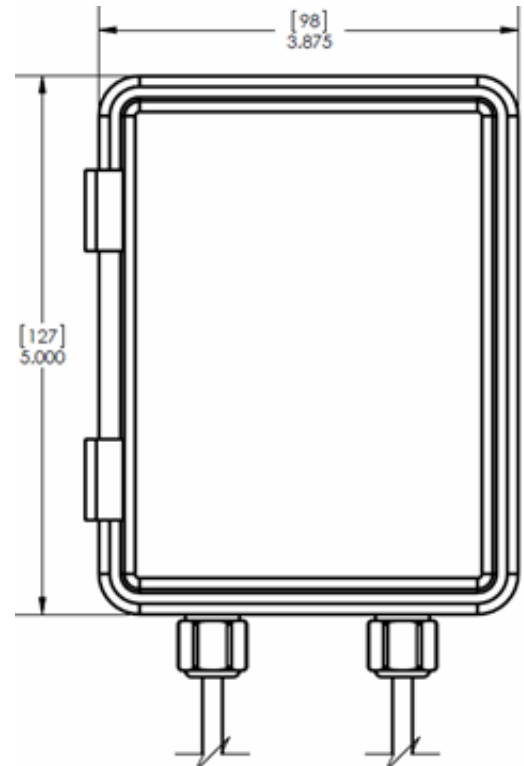
- Radar Activated Smart traffic signs such as “Slow Down” boards and LED Cautioning Signs.
- Over Speed Limit Warning Beacons and strobe lights.
- Stop Signs and Crossing Traffic Warning for intersections and industrial zones.
- Wrong Way and Blind Curves warning system.
- Traffic Lights Synchronization, Traffic Speed Loggers, and Vehicles Counters.
- Perimeter Security Systems.
- Intelligent Street Light System.

Flexible and open for Your Ideas

Have an idea of a product which includes Doppler Radar Sensor? Please do not hesitate to ask us about customization of our firmware and software according to your needs. We are dedicated to satisfying all of your requirements.

Features

- Highly optimized Doppler signal processing algorithms for quick and accurate speed measurements.
- A high-end, programmable multi-level signal amplifier allowing detection of inbound and outbound vehicles at distance up to 500 meters.
- Onboard configuration and diagnostics with Graphic OLED display and 4-buttons navigation.
- FTDI USB and TTL UART interfaces for interaction with high-level controller or computers.
- An extension slot for wireless communication modules such as Bluetooth, Wi-Fi, Cellular, Lo-Ra, as well as wired RS-232, RS-485, CAN etc.
- Real-Time clock and calendar with independent backup battery for scheduled applications.



Parameter	Units	Value
Radar		
Frequency	GHz	24.125
Beam angle	H°/V°	24/12
Speed Range	km/h	4 - 200
Detection distance (max)	m	500
Programmable Gain Range		1-100
Mechanical		
Dimensions	mm	98 x 127
Weight (approximate)	g	300
Operating Temperature	°C	-40...+85
Programmable Outputs		
Output Voltage (stabilized)	V	12
Output Current (Max per channel)	A	1.5
Onboard Interfaces		
USB through FTDI UART	bps	115200
Micro SD Card (Max Size)	GB	32
Integrated Wireless (16-channel ZigBee)	GHz	2.4
XBee20-pin socket (Wi-Fi, BT, RS-232, etc.)	bps	115200
Onboard OLED Screen resolution	px	128x32



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