

AGD331

In-Sign Radar Traffic Detector

The AGD331 ultra low power true ranging radar is specifically designed to mount internally in Vehicle Actuated Signs (VAS) as the primary source of detection.

Integrating expert knowledge from our existing enforcement radar platforms and applying it to a low power engine, the AGD331 platform is an ideal solution when working at remote sites with a demanding power budget.

It has been possible with this bespoke antenna design to achieve true ranging capabilities that allow for a high degree of vehicle count data.

- Ease of integration to host signs
- Very compact radar footprint
- Flexibility of radar set-up
- Adaptability of range settings



KEY FEATURES

- Low Power design 15mA at 12Vdc
- True ranging capabilities providing accurate count data in single lane environments.
- Dual independent FET switched outputs
- RS232 serial communications for configuration and data output
- Dynamic frame rate for further reduction in power consumption (Patent pending)
- Wide low voltage supply range
- User selectable range up to 180m
- Mounting footprint backwardly compatible with AGD330
- Speed measurement 4kph - 160kph or 11kph - 160 kph dependant upon variant
- Bi-directional discrimination
- Simple set-up option using rotary switches

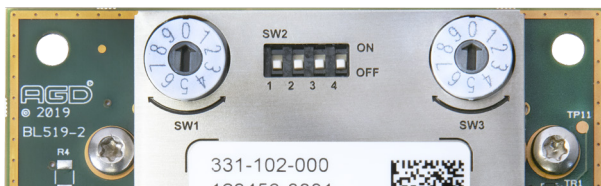
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AGD LOW SPEED MODE

SIMPLE MECHANICAL SWITCH SET-UP

Designed to be simple to use and quickly deployed into the end users sign solution, the AGD331 range and low speed can be set-up and adjusted via rotary and dip switches conveniently located on the rear of the unit.



ADVANCED RS232 SET-UP

Additional parameters are accessible via an RS232 serial interface. Connection via RS232 allows the user to access the full range of configuration parameters within the AGD331.

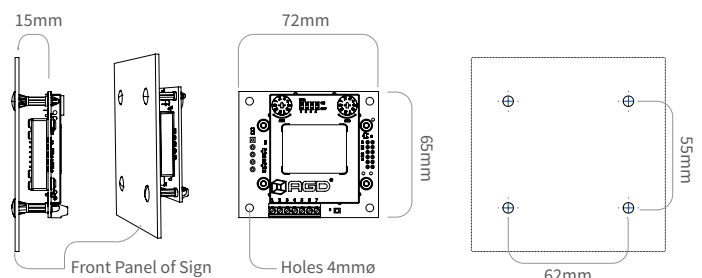
RS232 output consists of speed and bi-directional count data, so the user can extract maximum information from passing traffic.

Communications can be established with the AGD331 Radar using MS-226 (FTDI USB-232 converter) cable assembly supplied separately.

PRODUCT SPECIFICATION

Technology	FMCW Doppler Radar
Frequency	24.15GHz to 24.25GHz (EU) 24.075GHz to 24.175GHz (FCC)
Mounting Height	2-5m nominal (optimum 3m)
Range/Zone	Up to 180m (dependant on sign mounting and user selection)
Low Speed Threshold	4kph - 160kph / 11kph - 160kph dependant upon variant
Direction	Advance / Recede / Bidirectional
Operating Temp	-20°C to +60°C
Power Supply	5.5/15Vdc
Current	Standard Variant: Detect: 15.6mA nominal @12Vdc Non-Detect: 11.2mA nominal @12Vdc Low Speed Variant: 27.8mA nominal @12Vdc
Product Mounting	4 off ø4mm mounting holes
Product Finish	Open PCB finish for mounting inside sealed enclosures
Detect Outputs	x2 FET Switched / x1 RS232
Weight	100g nominal
User Adjustments	<ul style="list-style-type: none">Range via rotary switch 3 or RS232Low speed threshold via rotary switch 1 or via RS232KPH or MPH via RS232Full configuration of all parameters via RS232
Approvals	EN 301 489, EN 50293, EN 300 440, FCC CFR47 Part 15.245, RSS-210, AS/NZS 4268

DIMENSIONS



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TESTED AND AGD CERTIFIED

All AGD products are Tested, Calibrated and AGD Certified so customers know that all devices will perform exactly as described.