

AGD 315

DIGITAL RADAR
TRAFFIC DETECTOR

DG
DETECTION GENERICS



- Patent pending radar technology
- MOVA and SCOOT compatible
- Real time data
- Occupancy, queue, count & speed
- IP & wireless connectivity

ADVANCED

GLOBAL
DETECTION
SYSTEMS

AGD315

Advanced Digital Radar Detection

The AGD range of vehicle detection products is further enhanced with the AGD315 advanced digital radar which offers levels of performance previously not achievable from such a compact stand-alone unit. Featuring high-end embedded processing the AGD315 gives detection of occupancy, queues, speed and count that can be tailored to meet specific ITS needs.

The AGD315 has a custom designed planar antenna and employs a unique frequency modulated technique which enables the detection of moving or stationary vehicles at specific distances from the radar.

The flexible functionality of the radar allows adaptation to a host of applications including queue detection, speed and count measurement, ramp monitoring and occupancy measurement or anywhere where the strategic detection for specific events is required.

The detector is configured via a special cable connected to the Livewire port on the rear face of the unit. A graphical user interface allows access to a range of commands enabling detection parameters to be optimised for site specific requirements. Optionally the detector can be supplied with the Livewire interface fully Bluetooth enabled.

Connection of the AGD315 to host systems is via relay or RS422 interfaces and the AGD Janus range offers a number of alternative ITS connectivity solutions.

This product has been designed for strategic detection requirements in Urban and Inter-Urban applications for unique single lane operation.

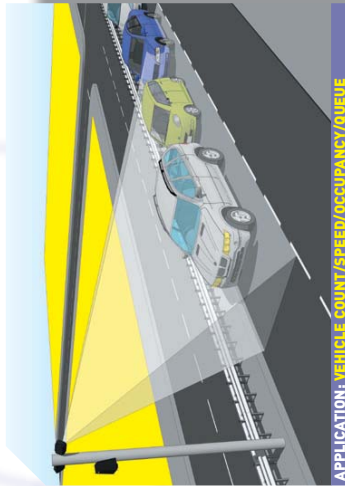
DIGITAL RADAR TECHNOLOGY



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APPLICATION: VEHICLE COUNT/SPEED/OCCUPANCY/QUEUE

A reliable relay interface is offered for applications which require occupancy, queue or count such as SCOOT or MOVA.

The RS422 is provided where speed output is required as a minimum and all parameters are output in a format compliant with the host management system such as UTMIC.

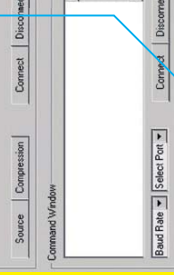
Low installation and maintenance costs make the AGD315 a real alternative to loop detectors where reliable data is required to manage the road network.

IMAGE FOR REFERENCE ONLY

DETECTION OF TARGET 1



DETECTION OF TARGET 2



DETECTOR CONFIGURATION

RELAY STATE INDICATOR

DETECT STATE

SPEED

COUNT/OCCUPANCY

DIGITAL RADAR TECHNOLOGY
AGD315

RADAR DETECTION

DIGITAL RADAR TRAFFIC DETECTOR

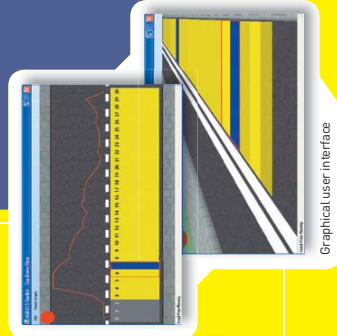
- Detection of occupancy, queues, speed and count
- MOVA and SCOOT compatible
- UTMIC ready
- Concurrent detection of multiple targets
- Compact stand-alone detection solution
- Integrated high-end embedded DSP processing
- Relay or RS422 interfaces with Bluetooth enabled options
- Wireless ITS solutions with Janus family



Optional solar power supply.

RADAR VIEW

RADAR SERIAL COMMS



Graphical user interface

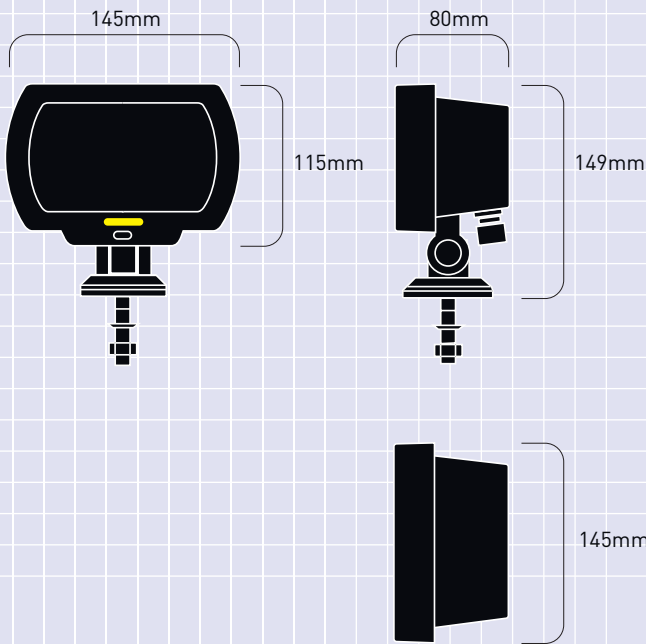


VEHICLE DETECTION

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DIMENSIONS



SPECIFICATIONS

Technology	Digital Radar Technology
Frequency	K-band 24GHz
Modulation	80MHz FM typical
Range/Zone	Up to 40m (user configurable with 2m range resolution)
Mounting Height	3-5 m nominal
Direction	Approach
Weight	750g nominal
Housing Material	Polycarbonate
Housing Finish	Self coloured black
Sealing	IP66
Operating Temperature	-30°C to +60°C
Power Supply	12Vdc or 24Vac/dc
Current	127mA typical (24V dc)
Detect Output	SPCO Relay (SPDT)
Configuration Interface	Livewire access on rear of unit (Bluetooth option available)
EMC Specification	EN301-489/BSEN50293
Radio Specification	ETS300.440
Electrical Safety	BSEN60950
Presence Time	4 minutes default (user configurable)

