



VEHICLE DETECTION

DYNAMIC/PASSAGE

DATA



CW DOPPLER RADAR TECHNOLOGY



AGD **206** UK APPLICATIONS

TRAFFIC CONTROL

CW RADAR TRAFFIC DETECTOR

INTRODUCTION

The AGD206 has been designed for the detection and monitoring of vehicles at signalled junctions, pedestrian crossing installations and other applications where the detection of moving vehicles is required in a long zone extending from the detector. This compact new detector features a custom designed 10.5GHz planar antenna and can discriminate between approaching and receding traffic.

DESCRIPTION

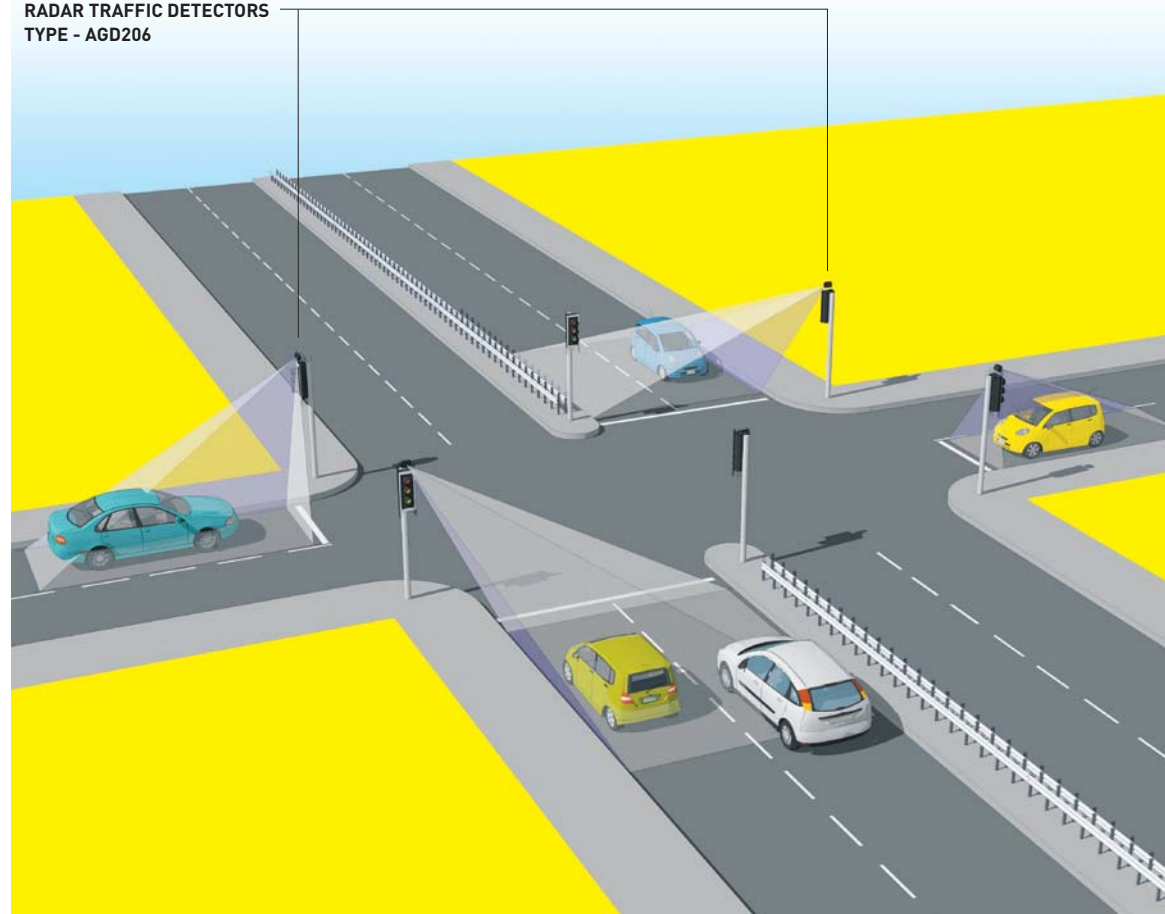
This modern compact detector can be used in accordance with the appropriate Highways Agency guidelines at permanent traffic signal installations for the detection of moving vehicles in one (or optionally both) directions up to sixty metres from its mounting position. It can also be used for the call and/or extension of a signal phase on a one or two lane approach to a given signal.

The detector can be used as an alternative to 'system D' detection installations to provide an effective input to the controller replacing the x,y and z loop detection inputs. Where detection in three or more lanes is required then more than one detector should be used.

The detector features a custom designed 10.5GHz planar antenna coupled with advanced radar processing in a modular design. The unit is compact in size and lightweight for ease of installation in a robust die-cast aluminium housing. The detector is equipped with a set of user selectable settings accessed via a rear port in the housing. This facility allows optimum detection performance for site specific applications.



RADAR TRAFFIC DETECTORS TYPE - AGD206



APPLICATION: JUNCTION CONTROL



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VEHICLE DETECTION

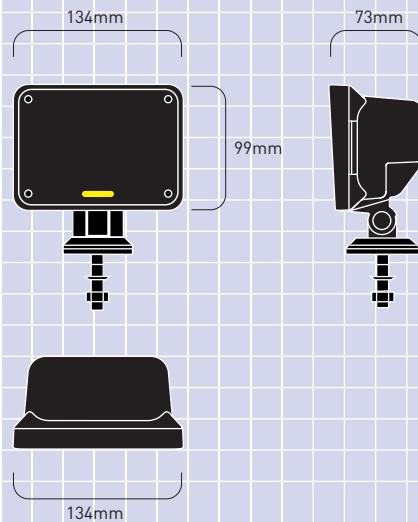
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DIMENSIONS



SPECIFICATIONS

Technology	CW Doppler Radar
Frequency	10.577 to 10.597GHz
Range/Zone	Up to 60m (or user selectable to low range)
Mounting Height	3-5m nominal
Low Speed Threshold	4 or 8 Km/Hr (user selectable)
Direction	Approaching or bi-directional (user selectable)
Weight	900g Nominal
Housing Material	Marine Grade Aluminium Alloy
Housing Finish	High quality, exterior finish, black polyester powder-coat paint
Sealing	IP67
Operating Temperature	-20°C to +60°C
Power Supply	24V ac/dc (see option 1)
Current	91mA typ. (24Vac)
Detect Output	SPCO Relay (SPDT) (see option 2)
Configuration Interface	DIP switch access on rear face
EMC Specification	ETS301-489/BS EN 50293
Radio Specification	ETS 300.440
Electrical Safety	BS EN60950
HA Specification	TR2505 Dynamic

OPTIONS

1. Power supply options of 12Vdc, 110Vac or 230Vac available.
2. Opto isolator output options available on request.

ACCESSORIES

- CA-083 Mating connector complete with 1.5M cable
- BR-129 Height extension bracket

Owing to the Company's policy of continuous improvement, AGD Systems Limited reserves the right to change their specification or design without notice.

SWITCH	DESCRIPTION	OFF	ON
1	Low speed threshold	8kph	4kph
2	Direction	Approach	Bi-directional
3	Range	High	Low
4	Channel frequency	Low (odd serial no.)	High (even serial no.)

Please note default position for SW1-3 OFF



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