TECHNOLOGY®

COMMITTED TO PROVIDE INTELLIGENT SOLUTIONS

WIRELESS DETECTORS

Detecting Vehicles Using Infra-Red, Microwaves and Laser.

These products have been designed to be highly versatile for a host of global traffic applications. The Wireless Vehicle Detector (WVD) is built with a microwave motion sensor and an active infra-red presence sensor in the same housing. The most suitable technology for VA traffic control systems.

The Wireless Laser Detector emits invisible IR and visible laser beams which is used for positioning and determining the sensing coverage area (the visible laser beams are inactive during normal functioning). It can filter out environmental interferences and built for outdoor applications (degree of protection: IP65). Suitable for larger coverage of detection area.

Functional Features

- Activation when vehicle present and moves in detection field
- Adjustable coverage zone of detection via remote control
- Capable of detecting vehicles and filtering irrelevant objects (pedestrian and cross-traffic)
- Adjustable maximum presence detection time
- High immunity to rain and snow
- Reliable, efficient and direction-sensing motion detection
- Alternative to inductive loop detector

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QUALITY POLICY

It is our commitment to provide the service with the highest standard of safety, quality and reliability that meet the specified requirements and expectations.

AJA EQS CERTIFICATION | STANDARDS MALAYSIA ACCREDITED
ISO 9001 : 2015 | No. Akreditasi: ACB QMS 08
Cert. No: AJAMY08/1229

Technical Specifications

WIRELESS LASER DETECTOR (WLD)

Technology	Laser Scanner, time-of-flight measurement
Detection mode	Presence (EN 12453 Type E)
Max. detection range	9.9 m x 9.9 m
Angular resolution	0.3516
Typ. min. object size	2,1 cm @ 3 m/ 3.5 cm @5 m/ 7cm @ 10 m (in proportion to object distance)
Testbody	700 mm x 300 mm x 200 mm (testbody according to EN 12445)
Emission characteristics IR laser	Wavelength 905 nm; max. Output pulse power 75 W; Class 1
Visible laser	Wavelength 650 nm; Output power 0.95 mW; Class 2
Supply Voltage	10-35 V DC @ sensor terminal
Power consumption	<5 W
Response time	typ. 20 ms; max. 80 ms
Output	2 electronic relays (galvanic isolation-polarity free)
Max. switching Voltage Max. switching current	35 V DC / 24 V AC 80 mA (resistive)
LED-signals	1 blue LED: power-on status 1 orange LED: error status Bi-colour Led: detection/ output
Dimensions	125 mm (L) x 93 mm (D) x 70 mm (H) (mounting bracket + 14 mm)
Material	PC/ASA
Colour	Black
Rotation angles (bracket)	-5° to +5° (lockable)
Tilt angles (bracket)	-3° to +3°
Protection degree	IP65
Temperature range	-30 °C to 60 °C if powered
Humidity	0 - 95 % non condensing

WIRELESS VEHICLE DETECTOR (WVD)

Technology	Microwave doppler radar	Active infrared
Detection mode	Motion	Presence
Reaction time	100 ms	250 ms
LED signals	Green	Red
Detection field	4 m x 5 m	250 ms
Min, detection speed	5 cm/s	5 cm/s to activate detection
Transmitter frequency/ Wavelength	24.150 GHz	875 nm
Transmitter power density	< 5 mW/cm²	< 250 mW/cm²
Supply voltage	12 V to 24 V DC	
Temperature range	From -30 °C to +60 °C	
Main Frequency	50 to 60Hz	
Power consumption	< 3.5 W/ VA	
Output	2 relays (free of potential change-over contact)	
Max. contact voltage	42 V AC/ DC	
Max. contact current	1 A (resistive)	
Max. switch power	30 W (DC)/48 VA (AC)	
Dimensions	124 mm (L) x 102 mm (H) x 96 mm (W)	
Weight	400 g	
Material	ABS/ Polycarbonate	

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