

ASIM Traffic Detectors by Xtralis

MW 33X Microwave Vehicle Detectors

MW 334

Operating Principle

The dynamic MW 33x Series of ASIM Doppler Radar Vehicle Detectors are designed for detecting vehicles moving into or through their field of view in short to medium range.

The digital output of the detector is activated as long as objects within the field of view are moving. When the movement stops, the output will be reset.

Correct alignment of the detector and a stable mounting structure are mandatory for optimal performance.

How do ASIM MW – Detectors work?

The multi-functional model MW 334 supports additional functions which can be set by a one-button-interface:

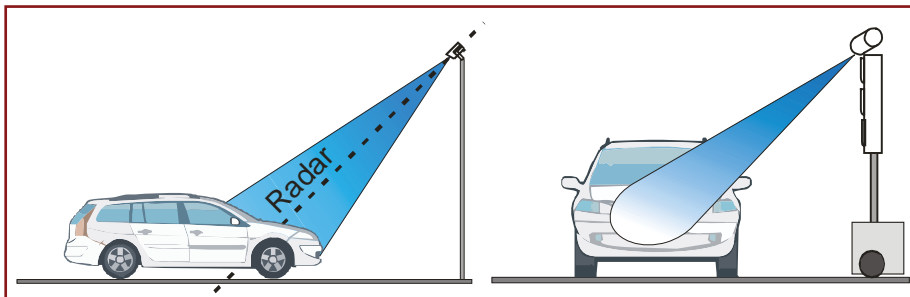
- Direction discrimination: Detector reacts only to approaching traffic or both directions.
- Minimum speed threshold: 4 or 8 km/h (2.5 / 5 mph)
- Timer function: automatically activates the output to simulate the arrival of a vehicle if the MW 334 has not changed state for a period of 2.5 minutes.
- The detector can be mounted overhead or on a pole on the side of the road. The recommended mounting height is within the range of 1 to 5 m (3 to 16 feet).

Applications

ASIM Doppler radar vehicle detectors are ideal for a variety of traffic and intersection control applications:

- Direction dependent vehicle detection
- Request of green phase
- Extension of green phase

Field of View



Product Highlights

- **Easy installation and maintenance**
The supplied standard mounting bracket allows an easy and stable mounting for all common applications.
- **Front LED to signal the activated output**
To easily check the alignment and functionality of the detector.
- **Small and rugged housing**
The splash proof, rugged housing of anodised aluminium protects the detector in the harshest environmental conditions.
- **Operating temperature**
-40 to +75°C (34 to +167°F)
- **Low power consumption**
115 mA or less at 12 V DC in continuous operation
- **Maximum detection range** of 45 m (150 ft)
- **Configuration via one-button-interface**, no computer necessary

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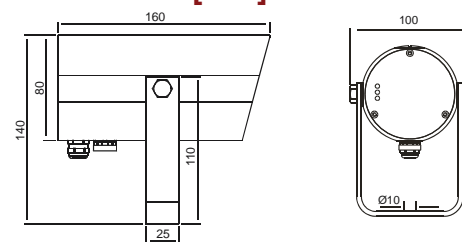
MW 33X Microwave Vehicle Detectors

MW 334

Technical Specifications

Order Information	
Order Number	MW 334-819
Mechanical	
Dimensions	See drawing
Housing and Bracket	Aluminium, nat. anodised
Weight	App. 600 g (1.3 lbs)
Cable Feeds	1 x M12 Outer Cable Diameter: 4.5 ... 7.0 mm (0.18 ... 0.28") 2.5 m long cable is included
Radar Sensor	
Doppler Radar	K-Band 24 GHz
Range	Typ. 45 m
Speed Threshold	4 km/h or 8 km/h, can be set via one-button-interface
Turn-on Time	1 s
EMC Specification	ETS300.339
Electrical	
Supply Voltage	10.5 - 30 V DC / 24 V AC ($\pm 15\%$)
Current Consumption	Typ. 70 mA @ 12 V DC in standby Typ. 115 mA @ 12 V DC in operation
Alarm Relay Output	Max. switching power: 60 W or 125 VA resp. Max. switching current: 2 A Max. switching voltage: 250 VDC or 300 VAC resp.
Wiring Terminal Block	0.34 mm ² - 1.5 mm ² (AWG 22 - 16) included cable already connected
Accuracy	
Counting	Typ. $\pm 3\%$
Velocity	Up to 100 km/h: ± 3 km/h Over 100 km/h: $\pm 3\%$
Environmental	
Operation Temperature	- 40°C ... + 75°C (- 34°F ... + 167°F)
Humidity	95 % RH max.
Sealing	IP 67 temporal immersion proof

Dimensions [mm]



Electrical Connections

1	V+ Supply	Brown
2	V- Ground	White
3	res	
4	res	
5	res	
1	C Relay	Yellow
2	NC Relay	Green
3	NO Relay	Grey

Accessories

The integrated mounting bracket allows for a stable and safe installation on flat surfaces. It is designed for easy mounting while providing the necessary flexibility to properly aim the detector to the target area.

For pole mounting we recommend one of the following accessories:

Mounting Brackets ZA P L1 / ZA V 201

Universal bracket with steel bands for mounting the detector directly (ZA P L1) or with a 20 cm lever (ZA V 201) onto all kinds of poles and overarms with a diameter of 40-160 mm

ZA P L1



ZA V 201



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