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 my 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 und 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
## 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 (± 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 mm² - 1.5 mm² (AWG 22 - 16)
  - included cable already connected

### Accuracy
- **Counting**: Typ. ± 3%
- **Velocity**:
  - Up to 100 km/h: +/- 3 km/h
  - Over 100 km/h: +/- 3%

### Environmental
- **Operation Temperature**: – 40°C … + 75°C (– 34°F … + 167°F)
- **Humidity**: 95 % RH max.
- **Sealing**: IP 67 temporal immersion proof

### Dimensions [mm]

![Diagram]

### Electrical Connections

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<th>1</th>
<th>V+ Supply</th>
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<tr>
<td>2</td>
<td>V– Ground</td>
<td>White</td>
</tr>
<tr>
<td>3</td>
<td>res</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>res</td>
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<td>5</td>
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<table>
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<tr>
<th>1</th>
<th>C Relay</th>
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<tbody>
<tr>
<td>2</td>
<td>NC Relay</td>
<td>Green</td>
</tr>
<tr>
<td>3</td>
<td>NO Relay</td>
<td>Grey</td>
</tr>
</tbody>
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### 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