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SMS Project Number:

Project Title:
Bracket

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1 Bracket Data Sheet

Smartmicro offers a family of traffic Radar sensors called UMRR – Universal Medium Range Radar.

In order to mount and adjust the sensor the here described brackets can be used. Different kinds of brackets are available:

1.1 Standard Brackets

Standard brackets allow for adjustments of the elevation angle. The azimuth angle must be set by choosing an appropriate mounting position. These standard brackets are available:

**BRACKET-050400** holder for type 1D (type 29) sensor housing 05.
**BRACKET-030400** holder for type 1E (type 30) sensor housing 03.
**BRACKET-070400** holder for type 20 (type 32) sensor housing 07.
**BRACKET-070600** holder for type 28, 2A, 2B (type 40, 42, 43) sensor housing 07.

<table>
<thead>
<tr>
<th>Bracket type</th>
<th>Weight (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRACKET-030400</td>
<td>340g / 12 oz</td>
</tr>
<tr>
<td>BRACKET-050400</td>
<td>340g / 12 oz</td>
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<tr>
<td>BRACKET-070400</td>
<td>450g / 16 oz</td>
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<tr>
<td>BRACKET-070600</td>
<td>560g / 20 oz</td>
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</tbody>
</table>
1.2 Standard Bracket Photographs

Figure 1: Bracket-050400 with sensor front.
Figure 2: Bracket-050400 with sensor rear.
Figure 3: Bracket-030400 with sensor front.
Figure 4: Bracket-030400 with sensor rear.

Figure 5: Bracket attached to pole using straps.
Figure 6: Bracket-070400 with sensor front.

Figure 7: Bracket-070400 with sensor back.
Figure 8: Bracket-070600 with sensor front

Figure 9: Bracket-070600 with sensor back
1.3 Advanced Brackets

Advanced brackets allow for **adjustments of both the azimuth and elevation** angle. They feature an **angle scale** that indicates the angle settings in increments of 5°. **Horizontal and vertical bar mount** are supported. The bracket **orientation** may be selected **straight or right angled**. Available advanced brackets are:

- **BRACKET-050500** holder for type 1D (type 29) sensor housing 05.
  If used with JBOX, the adjustment range of the elevation angle is limited, but still sufficient for normal measurement scenarios.

Advanced brackets are available for all sensor types:
- **BRACKET-050500** holder for type 1D (type 29) sensor housing 05.
- **BRACKET-030500** holder for type 1E (type 30) sensor housing 03.
- **BRACKET-070500** holder for type 20 (type 32) sensor housing 07.
- **BRACKET-070700** holder for type 28, 2A, 2B (type 40, 42, 43) sensor housing 07.

<table>
<thead>
<tr>
<th>Bracket type</th>
<th>Weight (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRACKET-030500</td>
<td>965g / 34 oz</td>
</tr>
<tr>
<td>BRACKET-050500</td>
<td>965g / 34 oz</td>
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<tr>
<td>BRACKET-070500</td>
<td>1100g / 39 oz</td>
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<tr>
<td>BRACKET-070700</td>
<td>1220g / 43 oz</td>
</tr>
</tbody>
</table>
1.4 Advanced Bracket Photographs

1.4.1 Straight orientation

Figure 10: BRACKET-050500 with sensor front, straight orientation
Figure 11: BRACKET-050500 with sensor back, straight orientation

Figure 12: BRACKET-050500 attached to pole using straps, straight orientation
1.4.2 Right angled orientation

Figure 13: BRACKET-050500 with sensor front, right angled orientation

Figure 14: BRACKET-050500 with sensor back, right angled orientation
Figure 15: BRACKET-050500 attached to pole using straps, right angled orientation
Figure 16: BRACKET-070700 with sensor front

Figure 17: BRACKET-070700 with sensor back
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