

**SENCITY® Rail Antenna**

1309.17.0093

**Properties**

- Railway rooftop antenna for GSM-R 900
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2
- Works also on non-metallic surfaces
- An alternative antenna type for GSM-R is 741009 / 84460303

**Electrical bands**

|                     | Band 1              |
|---------------------|---------------------|
| Frequency           | 806 MHz ... 960 MHz |
| VSWR                | 1.5                 |
| Impedance           | 50 Ω                |
| Gain                | 6 dBi               |
| Ambient Temperature | 25 °C               |
| Composite Power max | 550 W               |

**Electrical remarks**

|         |                                                                                                                                        |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|
| Remarks | Ground plane: Indicated VSWR values are valid also for installations on non-metallic surfaces (no specific ground plane requirements). |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|

**Ports**

|              | Port 1           |
|--------------|------------------|
| Connector    | N, jack (female) |
| Polarization | vertical         |
| DC grounded  | Yes              |

**Connections**

|             |        |
|-------------|--------|
| Port number | Port 1 |
| Band 1      | ✓      |

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| <b>Mechanical data</b> |                                                                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                 | 1.1 kg                                                                                                                                                                                                                                                                                                            |
| Dimensions             | 90 mm x 100 mm x 260 mm (Height x Width x Depth)                                                                                                                                                                                                                                                                  |
| Remarks                | High-current-protection: Designed acc. to UIC 533, DC-grounded antenna element (protection against lightning and short circuit with catenary lines(40kA/0.1s).<br>Corrosion: Low corrosion design acc. to MIL-F-14072(E).<br>Mounting: Shall be installed in longitudinal position to the wind/driving direction. |

| <b>Interface and material data</b> |                                           |
|------------------------------------|-------------------------------------------|
| Radome material                    | ASA (acrylic ester-styrene-acrylonitrile) |
| Radome colour                      | RAL 7043 (dark grey)                      |
| Back plate/base plate material     | Aluminum                                  |

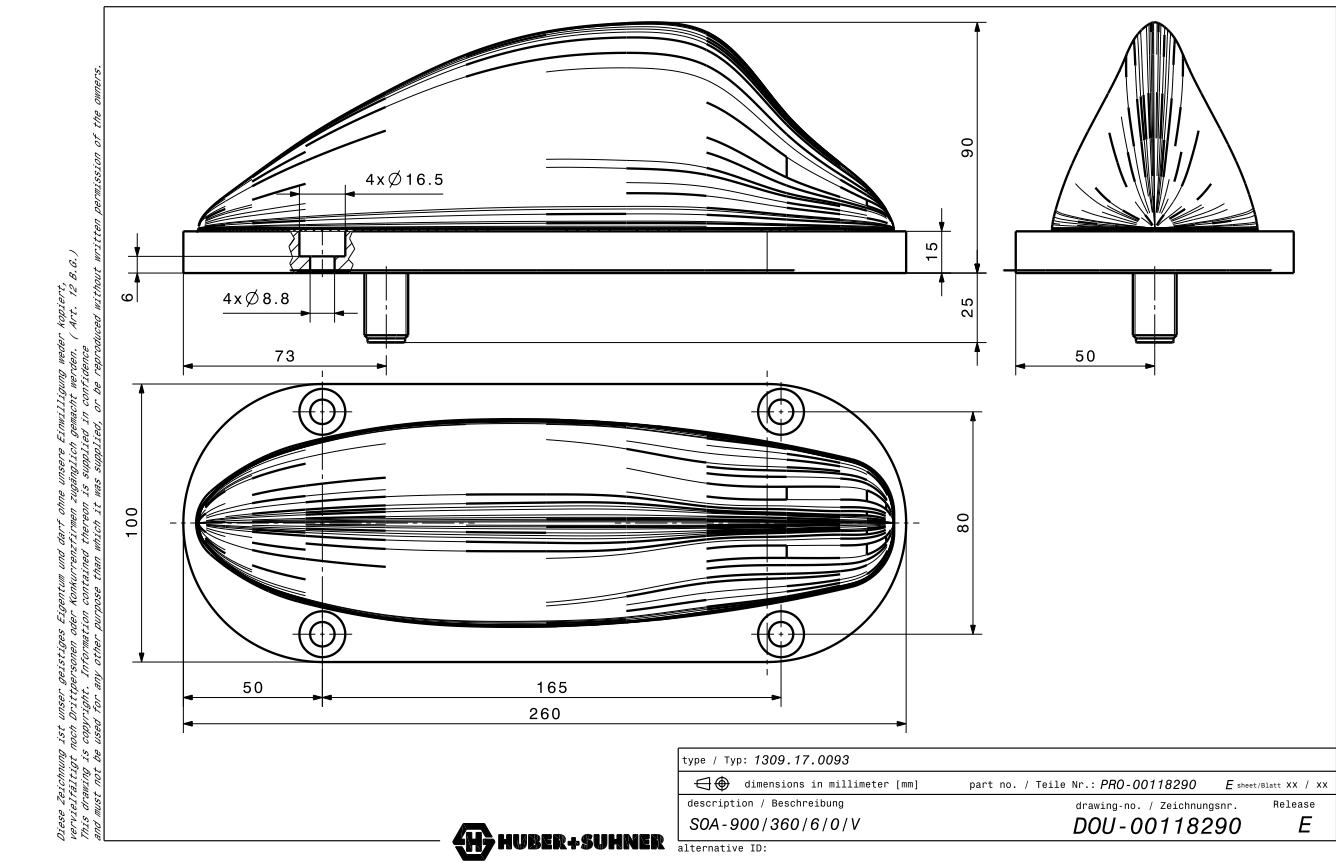
| <b>Environmental data</b>      |                  |
|--------------------------------|------------------|
| Operation temperature          | -40 °C ... 85 °C |
| Storage temperature            | -40 °C ... 85 °C |
| Transport temperature          | -40 °C ... 85 °C |
| Environment (application)      | Outdoor          |
| Ingress protection (IP Rating) | IP68             |
| Flammability rating            | DIN 5510         |

| <b>Environmental remarks</b>                                                                              |  |
|-----------------------------------------------------------------------------------------------------------|--|
| Environmental tests EN 50155:2007<br>Flammability rating DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2. |  |

| <b>Additional Information</b>                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| This product meets the Deutsche Bahn specifications for rolling stock equipment. Protected by Patents: US7327320B2, CN1765030B, AU2003218856A1, CA2521771C, SG114406, ZA200508290. |  |

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Outline drawing



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