

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 data

	Band 1
Frequency	806 MHz ... 960 MHz
Impedance	50 Ω
VSWR	1.5
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).
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Ports

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

Connections

	Port 1
Band 1	☒

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Mechanical data	
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). Corrosion: Low corrosion design acc. to MIL-F-14072(E). Mounting: Shall be installed in longitudinal position to the wind/driving direction.

Material data	
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Radome colour	RAL 7043 (dark grey)
Back plate/base plate material	Aluminum

Environmental data	
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

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

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

Antenna accessories		
Item description	Item number	Product name
9091.99.0189	84008192	12mm adapter plate for Sencity Rail antenna

Antenna accessories remarks	
9091.99.0189 Adapter plate for antenna 1399.17.0043/ .0044 Allows the replacement of the antenna from another antenna mounting footprint without any modifications of the mounting holes located on the vehicle's roof. Using this interface, the mounting hole dimension for the connector has to be 17 ... 42 mm and the antenna secured using four M10 screws.	

Ordering information		
Item description	Item number	Product name
1309.17.0093	84065220	SENCITY® Rail Antenna

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