

Sencity Rail Antenna 1399.17.0039

Description

Railway rooftop antenna for GSM 900, GSM 1800, GSM 1900, UMTS, WiFi and WiMAX 2.4, 3.5, 5.3 and 5.8 GHz Bands.
 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.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	870 - 960	1710 - 2170	2400 - 2700	3400 - 3700
VSWR	1.5	1.5	1.5	1.5
Impedance (Ohm)	50	50	50	50
Gain (dBi)	6	8.5	9.5	9.5
Composite power max (W)	550	450	350	300
Ambient temperature (°C)	25	25	25	25

	Band 5
Frequency (MHz)	5150 - 5875
VSWR	1.8
Impedance (Ohm)	50
Gain (dBi)	8.5
Composite power max (W)	300
Ambient temperature (°C)	25

Ports

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

General Data

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

Mechanical Data

Dimensions (mm)	90 x 100 x 260 (Height x Width x Depth)
Weight (kg)	1.1

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 wind/driving direction.

Sencity Rail Antenna 1399.17.0039

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP68
Flammability rating	DIN 5510
Solar radiation	DIN 75220
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
WEEE 2012/19/EU	no special marking needed
REACH 1907/2006/EC	compliant

Environmental tests: EN 50155:2004

Flammability rating DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.

Material Data

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

Related Products

9091.99.0189 12mm adapter plate for Sencity Rail antenna

9091.99.0196 16mm adapter plate for Sencity Rail antenna

Related Documents

Mounting instruction	DOC-0000197320
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00016277
3D-model	DOC-0000252364

Additional Information

This product meets the Deutsche Bahn specifications for rolling stock equipment. A new version of this product is available with extended frequency to cover the 5G Cellular bands - Article Number: 1399.99.0122 / 84071876.