

# SENCITY® Spot-S Railway Cellular Antenna

1318.17.0015

## Properties

- Compact Industrial antenna for Cellular and DECT bands between 1710 and 1980 MHz
- Gain of 8 dBi and half power beamwidth of 72° (vertical) and 90° (Horizontal)
- Approved according to EN 50155, EN 50125-3 railway and EN 60068 standards
- Fire retardant acc. to EN 45545-2, DIN 5510-2 and BS 6853
- For both indoor and outdoor mounting with IP rating IP66 & IP67
- Wall mounting material included



Electrical bands			
	Band 1	Band 2	Band 3
Frequency	1710 MHz ... 1755 MHz	1755 MHz ... 1910 MHz	1910 MHz ... 1980 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	2	1.5	2
Gain	6.5 dBi	8 dBi	7 dBi
HPBW vertical	72 °	70 °	65 °
HPBW horizontal	87 °	85 °	90 °
Front to back ratio	15 dB	15 dB	15 dB
Vertical Electrical Tilt	0 °	0 °	0 °
Ambient Temperature	25 °C	25 °C	25 °C
Composite Power max	50 W	50 W	50 W

Ports	
	Port 1
Connector	N, jack (female)
Polarization	vertical

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Ports	
	Port 1
DC grounded	No

Connections	
	Port 1
Band 1	✓
Band 2	✓
Band 3	✓

Mechanical data	
Weight	0.11 kg
Dimensions	101 mm x 81 mm x 36 mm (Height x Width x Depth)
Windload	front: 15 N at 160km/h, Wind Speed survival: 220 km/h

Interface and material data	
Radome material	PC (Polycarbonate)
Radome colour	RAL 7044 (grey)

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Indoor/Outdoor
Ingress protection (IP Rating)	IP 66 / IP 67
Flammability rating	EN 45545-2
Solar radiation	UL 746C, F1

Environmental remarks	
<p>FLAMMABILITY: EN 45545-2 (2013) HL3, BS 6853 and DIN 5510-2            ENVIRONMENT: EN 50155 (2016) and EN 50125-3 (2003), also EN 60068 related            IP RATING: IP 66 / IP 67 (IEC 60529)            SOLAR RADIATION: EN 50125-3:2004 §4.9, 1120 W/m<sup>2</sup> for 20h            AIR PRESSURE: EN 50125-3:2004 §4.2, Altitude Class A1 (up to 1400m)            AIR PULE PRESSURE: EN 50125-3:2004 §4.2, 1 kPa/s            RAIN: EN 50125-3:2004 §4.6, delivery rate: 6 mm/min            VIBRATION / SHOCK: EN 50125-3:2004 §4.13, position profile: "outside the track"            POLLUTION: EN 50125-3:2004 §4.11, pollution levels: 4B1, 4S1            CORROSION: MIL-F-14072 E Type 1 "exposed"            MECHANICAL IMPACT (HAMMER IMPACT): EN 60068-2-75 (IEC 62262/2002-02 IK06)</p>	

Additional Information	
<p>Following Declaration of Conformity for SENCITY Spot-S antennas are available on request:            * Industrial standards EN 60068 / EN 60529 / IEC 61373: Ref. DOC-0000318049            * Railway rolling stock, environmental standards EN 50155 and fire behaviour EN 45545-2: Ref. DOC-0000813010            * Railway trackside, environmental standards EN 50125-3 and fire behaviour EN 45545-2: Ref. DOC-0000411396</p>	

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