

SENCITY® Spot-S WiFi Antenna 1351.17.0001

Description

Small directional, planar, linear vertical polarized WiFi antenna with 13.5 dBi gain
4.9 up to 5.3 GHz for public safety wireless-networks
WLAN/WiFi IEEE 802.11 a/h for Japan, Israel
Rugged design, meets EN 50155 and EN 50125-3 railway standards
Fire retardant acc. to EN 45545-2 and NFPA130
For outdoor applications IP66 / 67

Wall mounting material included



Product Configuration

Technical Data

Electrical Data

| | Band 1 | Band 2 |
|------------------------------|-------------|-------------|
| Frequency (MHz) | 4900 - 4940 | 4940 - 5350 |
| VSWR | 1.5 | 1.5 |
| Impedance (Ohm) | 50 | 50 |
| Gain (dBi) | 13 | 13.5 |
| 3dB beamwidth (h) (°) | 40 | 40 |
| 3dB beamwidth (v) (°) | 35 | 35 |
| Composite power max (W) | 30 | 30 |
| Ambient temperature (°C) | 25 | 25 |
| Front to back ratio (dB) | 20 | 20 |
| Sidelobes (h) | 15 | |
| Vertical electrical tilt (°) | 0 | 0 |

Ports

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

Connections

| | Band 1 | Band 2 |
|--------|--------|--------|
| Port 1 | X | X |

General Data

Mechanical Data

Dimensions (mm) 101 x 81 x 36 (Height x Width x Depth)
Weight (kg) 0.11
Windload frontal: 15 N at 160 km/h , Wind speed survival: 220 km/h
Included mounting material Wall mounting material

Environmental Data

Environmental conditions indoor/outdoor
Operation temperature (°C) -40 to 85
Storage temperature (°C) -40 to 85
Transport temperature (°C) -40 to 85
Flammability rating EN 45545-2
2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant
Lead-free soldered yes
WEEE 2012/19/EU special marking needed

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REACH 1907/2006/EC

compliant

FLAMMABILITY: EN 45545-2 (2013) HL3 and NFPA130 (2013), also 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/m² for 20h

AIR PRESSURE: EN 50125-3:2004 §4.2, Altitude Class A1 (up to 1400m)

AIR PULSE 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)

Material Data

| | |
|-----------------|--------------------|
| Radome colour | RAL 7044 (grey) |
| Radome material | PC (Polycarbonate) |

Related Products

9091.99.0238 Outdoor Spot-S Antenna Down-Sidetilt Bracket

9091.99.0237 L-Bracket for SPOT-S antennas

Related Documents

| | |
|----------------------|----------------|
| Mounting instruction | DOC-0000287053 |
| Painting instruction | DOC-0000278984 |
| Security instruction | DOC-0000256179 |
| Outline drawing | DOU-00146393 |
| 3D-model | DOC-0000344273 |

Additional Information

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 45545-2k, NFPA130: Ref. DOC-0000380375 * Railway trackside, environmental standards EN 50125-3 and fire behaviour EN 45545-2: Ref. DOC-0000411396