

## SENCITY® Spot-S WiFi Antenna 1324.17.0098

### Description

Small directional, planar, linear vertical polarized WiFi antenna with 8.5 dBi gain  
WLAN IEEE 802.11 b/g - WiFi band 2.4 - 2.485 GHz  
Rugged design, meets EN 50155 and EN 50125-3 railway standards  
Fire retardant acc. to EN 45545-2 and NFPA130  
For outdoor and indoor applications  
Ingress protection IP 66 and IP 67

Wall mounting material included



### Product Configuration

### Technical Data

#### Electrical Data

|                              | Band 1      |
|------------------------------|-------------|
| Frequency (MHz)              | 2400 - 2500 |
| VSWR                         | 1.5         |
| Impedance (Ohm)              | 50          |
| Gain (dBi)                   | 8.5         |
| 3dB beamwidth (h) (°)        | 75          |
| 3dB beamwidth (v) (°)        | 75          |
| Composite power max (W)      | 30          |
| Ambient temperature (°C)     | 25          |
| Front to back ratio (dB)     | 12          |
| Vertical electrical tilt (°) | 0           |

#### Ports

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

#### 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 |
| 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

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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 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 Down\_Sidetilt Bracket\_SencitySpot-S outdoor

9091.99.0237 L-Bracket for SPOT-S antennas

### Related Documents

|                      |                |
|----------------------|----------------|
| Mounting instruction | DOC-0000287053 |
| Painting instruction | DOC-0000256180 |
| Security instruction | DOC-0000278984 |
| Outline drawing      | DOU-00135740   |
| 3D-model             | DOC-0000344274 |

### 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 45545-2 NFPA130 ref. DOC-0000380375 \* Railway trackside, environmental standards EN 50125-3 and fire behaviour EN 45545-2 ref. DOC-0000411396

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