DATA SHEET

SENCITY® Spot-S Wi-Fi Antenna

1324.19.0057

Properties

- Compact Industrial antenna for Wi-Fi bands between 2400 and 2500 MHz
- Gain of 8.5 dBi with Vertical polarisation
- Half power beamwidth of 75° (vertical) and 75° (Horizontal)
- Wall and Mast mounting brackets included
- Integrated SMA female interface



Electrical bands	
	Band 1
Name	Wi-Fi
Frequency (MHz)	2400 MHz ... 2500 MHz
Impedance	50 Ω
VSWR	1.5
Gain (dBi)	8.5 dBi
Halfp Beamwidth vertical	75 °
Halfp Beamwidth horizontal	75 °
Front to back ratio	12 dB
Ambient Temperature	25 °C
Composite Power max	30 W

Ports	
	Port 1
Port name	Wi-Fi
Connector	SMA, jack (female)
Polarization	vertical
DC grounded	Yes

Connections	
Port number	Port 1
Band 1	✓

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Mechanical data	
Weight	0.11 kg
Dimensions	101 mm x 81 mm x 36 mm (Heigth 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
Standards	Railway EN 50155
	Railway EN 45545
	Railway NFPA130
	Industrie EN 60068

Environmental remarks

FLAMMABILITY: EN 45545-2 (2013) HL3 and NFPA130 (2013), also BS 6853 and DIN 5510-2
ENVIRONMENT: Meets EN 50155 (2016) and EN 60068 related tests
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 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)

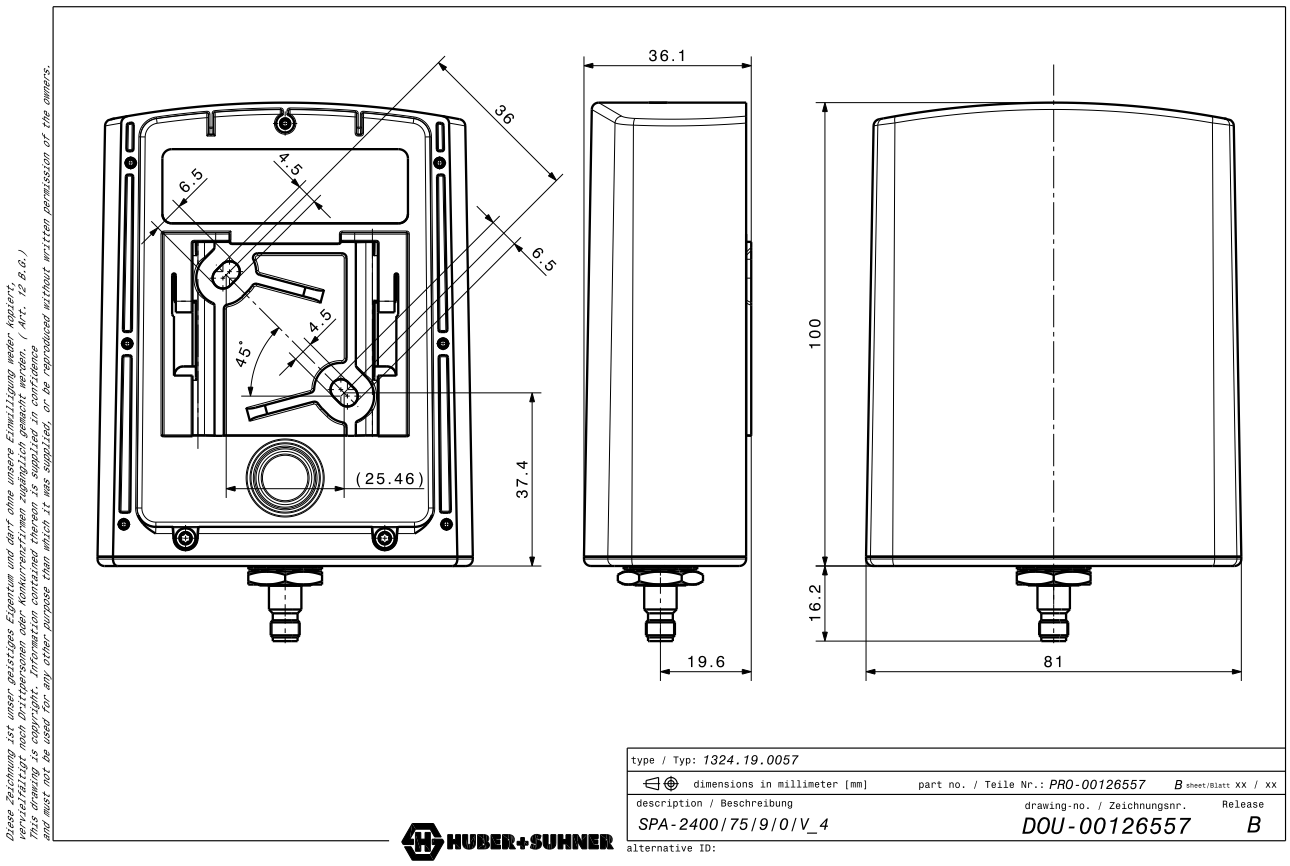
Additional Information

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

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Outline drawing



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