Data Sheet

HUBER+SUHNER

SENCITY® Spot-S WiFi Dual-Band Antenna
1399.19.0221

Description

Small directional, planar, linear polarized dual-band WiFi antenna with 9 dBi gain
WLAN bands 2.4 to 2.5 GHz (Port 1) and 5.150 to 5.975 GHz (Port 2)
WLAN IEEE 802.11 a/b/g/h/p, LTE 2600 band included at port 1
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	Band 2
Frequency (MHz)	2400 - 2700	5150 - 5975
VSWR	2	2
Impedance (Ohm)	50	50
Gain (dBi)	9	9
3dB beamwidth (h) (°)	80	47
3dB beamwidth (v) (°)	55	30
Composite power max (W)	30	30
Ambient temperature (°C)	25	25
Front to back ratio (dB)	18	18
Port Isolation (dB)	25	35

Ports

	Port 1	Port 2
Port name	2.4 GHz Band	5 GHz Band
Connector	SMA, jack (female)	SMA, jack (female)
Polarization	vertical	vertical

Connections

	Band 1	Band 2
Port 1	X	
Port 2		X

General Data

Mechanical Data

Dimensions (mm)	101 x 81 x 36 (Heigth x Width x Depth)
Weight (kg)	0.13
Windload	frontal: 15 N at 160 km/h , Wind speed survival: 220 km/h
Included mounting material	Wall mounting material

Environmental Data

Environmental conditions	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

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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

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)

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-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00249255
3D-model	DOC-0000386435

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

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.