DATA SHEET

SENCITY® Spot-S 3x3 Wi-Fi MIMO Antenna

1356.35.0003

Properties

- Compact Industrial antenna for Wi-Fi bands between 5150 and 5935 MHz
- Gain of 8 dBi with with triple slant vertical and +/-45° polarisation
- Half power beamwidth of 65° (vertical) and 65° (Horizontal)
- Wall and Mast mounting brackets included
- Integrated QMA female interfaces



Electrical bands	
	Band 1
Name	Wi-Fi
Frequency (MHz)	5150 MHz ... 5935 MHz
Impedance	50 Ω
VSWR	1.7
Gain (dBi)	8 dBi
Halfp Beamwidth vertical	65 °
Halfp Beamwidth horizontal	65 °
Isolation between Ports	17 dB
Vertical Electrical Tilt	0 °
Ambient Temperature	25 °C
Composite Power max	30 W

Electrical remarks	
Remarks	Electrical data (VSWR, Gain and beam width) is derived from the vertical polarized radiator of this MIMO antenna

Ports			
	Port 1	**Port 2**	**Port 3**
Port name	Wi-Fi	Wi-Fi	Wi-Fi
Connector	QMA, jack (female)	QMA, jack (female)	QMA, jack (female)

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Ports			
	Port 1	**Port 2**	**Port 3**
Polarization	-45C° slant	vertical	+45C° slant

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

Mechanical data	
Weight	0.27 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)	IP67
Flammability rating	EN 45545-2
Standards	Railway EN 50155
	Railway EN 45545
	Railway NFPA130
	Railway EN 50125
	Industrie EN 60068

Environmental remarks

NOTE: IP rating can be achieved with the use of waterproof QMA-m cable connectors for the jumper cables.
For more information please consult http://www.hubersuhner.com/hs-p-rf-con-gr-series-ipqma.htm
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)

Additional Information

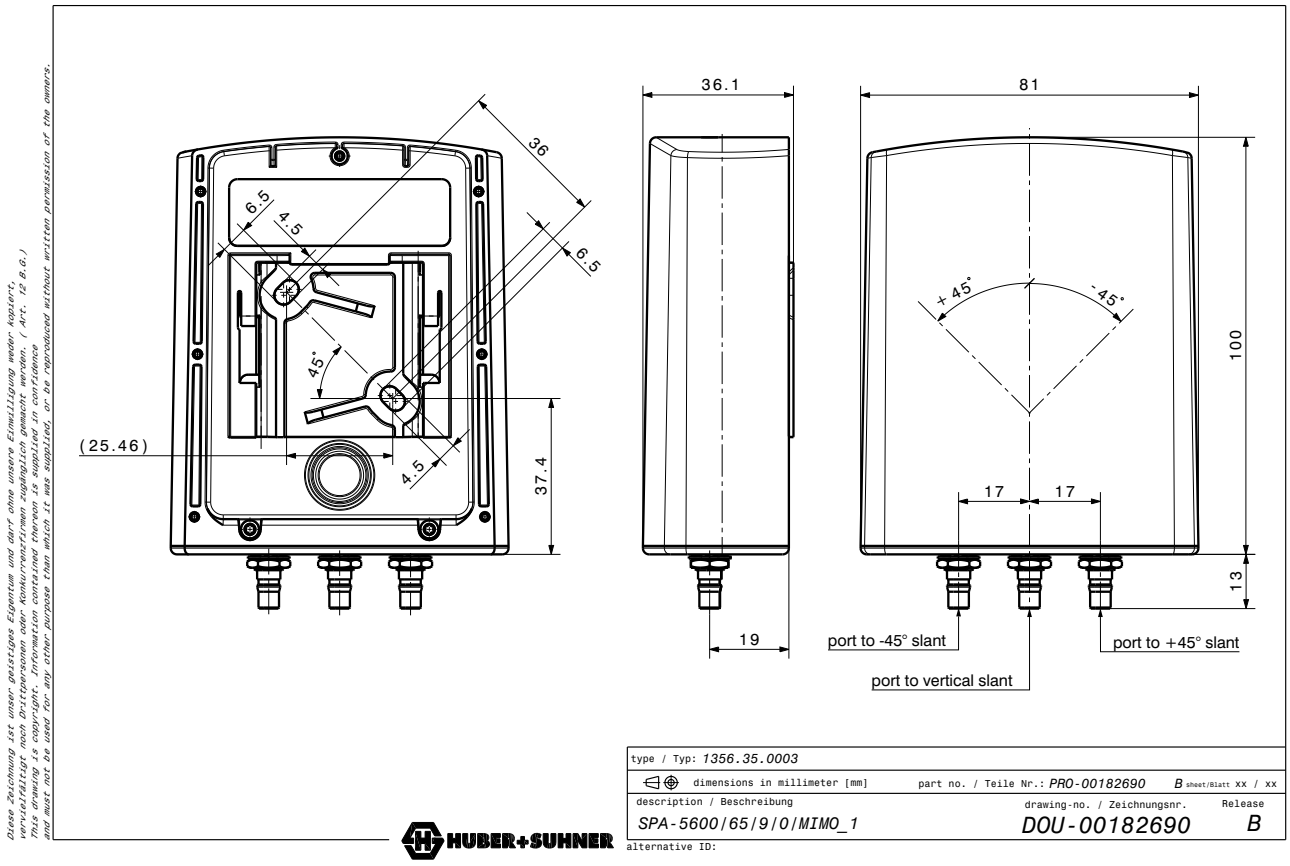
Following Declaration of Conformity for SENCITY Spot-S antennas are available on request:

* 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

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Outline drawing



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