

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

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Properties

- Compact Industrial antenna for Wi-Fi bands between 5150 and 5935 MHz
- WLAN IEEE 802.11 a/h/n/p/ac, 3x3 MIMO with three QMA (jack) antenna ports
- Gain of 8 dBi with dual slant +/-45° polarisation and vertical polarisation
- Rugged design, meets EN 50155 and EN 50125-3 railway standards
- For both indoor and outdoor mounting with IP rating IP66 & IP67
- Wall mounting material included



Electrical bands	
	Band 1
Frequency	5150 MHz ... 5935 MHz
VSWR	1.7
Impedance	50 Ω
Gain	8 dBi
HPBW vertical	65 °
HPBW 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
Connector	QMA, jack (female)	QMA, jack (female)	QMA, jack (female)

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Ports			
	Port 1	Port 2	Port 3
Polarization	-45° slant	vertical	+45° 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 (Height 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)

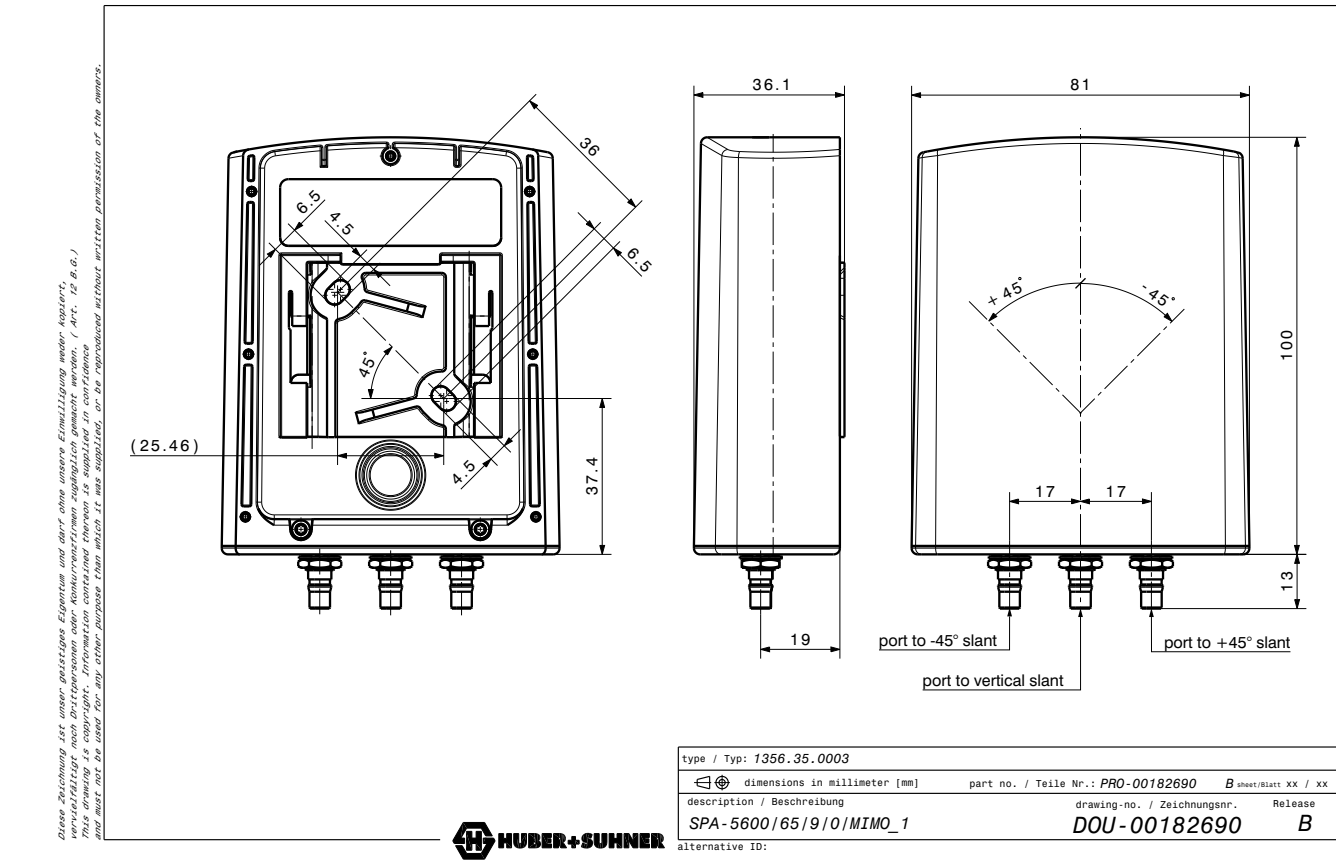
Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Indoor/Outdoor
Ingress protection (IP Rating)	IP 66 / IP 67
Flammability rating	EN 45545-2

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 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)

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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