

SENCITY® Spot-S 2x2 WiFi MIMO Antenna 1324.17.0099

SPA-2400/75/8/0/DS

Description

Directional, planar, linear polarized WiFi antenna with 8 dBi gain
 Dual-slant +/- 45° for 2x2 WiFi MIMO antenna configuration
 WLAN IEEE 802.11 b/g/n WiFi band 2.4 - 2.485 GHz
 Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock
 and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
 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 - 2485
VSWR	1.5
Impedance (Ohm)	50
Gain (dBi)	8
3dB beamwidth (h) (°)	75
3dB beamwidth (v) (°)	70
Front to back ratio (dB)	14
Vertical electrical tilt (°)	0
Port Isolation (dB)	25

Ports

	Port 1	Port 2
Connector	N, jack (female)	N, jack (female)
Polarization	-45° slant	+45° slant

Connections

	Band 1
Port 1	X
Port 2	X

General Data

Composite Power max (W) 10

- Meets EN 50155 railway standard fire retardant acc. to DIN 5510-2, EN 45545-2, BS 6853, and outdoor use acc. to NF F16-101/102
- Meets environmental standards according to EN 60068

Mechanical Data

Dimensions (mm) 100 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 outdoor
 Operation temperature (°C) -40 to 85
 Storage temperature (°C) -40 to 85
 Transport temperature (°C) -40 to 85

SENCITY® Spot-S 2x2 WiFi MIMO Antenna 1324.17.0099

Flammability rating	EN 45545-2
Solar radiation	UL 746C, F1
RoHS 2011/65/EC	compliant
Lead-free soldered	yes
REACH 2006/1907/EC	compliant

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-0000197967
Security instruction	DOC-0000278984
Outline drawing	DOU-00133254
3D-model	DOC-0000339624

Additional Information

Following Declaration of Conformity for SENCITY® Spot-S antennas are available on request: * Industrial standards EN 60068 / EN 60529 / IEC 61373 s ref. DOC-0000318049 * Railway rolling stock, environmental standards EN 50155 and fire behaviour EN 45545-2 ref. DOC-0000380375 * Railway trackside, environmental standards EN 50125-3 and fire behaviour EN 45545-2 ref. DOC-0000411396