

## SENCITY® Spot-SR 2x2 Wi-Fi MIMO Antenna 1356.17.0089

### Description

Compact directional, planar, linear polarized antenna with 14 dBi gain.  
 Supports 2x2 Wi-Fi MIMO in Wi-Fi-2 / Wi-Fi 5 bands.  
 Designed for Trainside and Metro applications which require high data transfer rate.  
 Dual-slant +/- 45° antenna configuration.  
 Supports frequency range from 4.9 - 5.935 GHz.  
 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	Band 3
Frequency (MHz)	4900 - 5150	5150 - 5470	5470 - 5935
VSWR	2	1.6	1.6
Impedance (Ohm)	50	50	50
Gain (dBi)	11.5	12.5	13
3dB beamwidth (h) (°)	42	38	36
3dB beamwidth (v) (°)	40	35	33
Composite power max (W)	30	30	30
Ambient temperature (°C)	25	25	25
Front to back ratio (dB)	20	20	20
Port Isolation (dB)	19	20	21

##### Ports

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

##### Connections

	Band 1	Band 2	Band 3
Port 1	X	X	X
Port 2	X	X	X

##### General Data

Peak Gain 14 dBi @ 5790 MHz

##### Mechanical Data

Dimensions (mm)	101 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	indoor/outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85

## SENCITY® Spot-SR 2x2 WiFi MIMO Antenna 1356.35.0089

Transport temperature (°C)	-40 to 85
Flammability rating	EN 45545-2
2011/65/EU (RoHS -including 2015/863 and 2017/2102)	compliant
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/m<sup>2</sup> 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 SPOT-S Antenna Down- and 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-01090221
3D-model	DOC-0000339646

### Additional Information