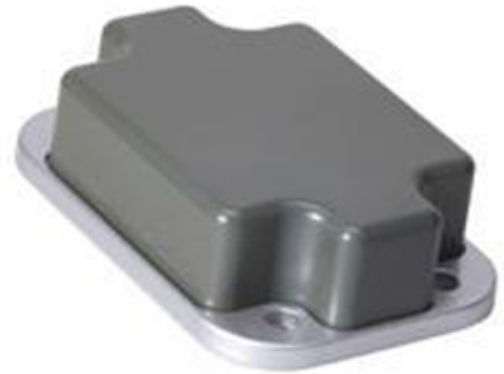


Sencity Rail Antenna 1399.17.0125

SWA-0825/360/5/30/V

Description

Railway rooftop antenna for 2G/3G/4G cellular and WiFi 2.4 and 5 GHz bands.
 Rugged design, meets EN 50155 railway standard.
 Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.
 Extremely low profile (40mm).



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	790 - 806	806 - 870	870 - 960	1350 - 2700
VSWR	2.2	1.9	1.6	2
Impedance (Ohm)	50	50	50	50
Gain (dBi)	5	5	5	5

	Band 5	Band 6
Frequency (MHz)	4900 - 6425	
VSWR	2.1	
Impedance (Ohm)	50	50
Gain (dBi)	8	

Ports

	Port 1
Connector	N, jack (female)
Polarization	vertical

General Data

DC Grounding	Yes
Composite Power max (W)	100

Indicated VSWR values are valid for a metallic ground plane of 0.2 x 0.2m or larger. Indicated gain values will be achieved on a metallic ground plane of 1 x 1 m or larger.

Mechanical Data

Dimensions (mm)	40 x 100 x 145 (Height x Width x Depth)
Weight (kg)	0.488

High-voltage-protection: no voltage on RF port, if the catenary line touches the antenna (EN 50124-1, 24 kVAC).

High-current-protection: Designed acc. to UIC 533, DC-grounded antenna element (protection against lightning and short circuit with catenary lines(40kA/0.1s).

Corrosion Low corrosion design acc. to MIL-F-14072(E).

Mounting Shall be installed in longitudinal position to the wind/driving direction. 4x composite sealing washers included for silicone-free sealing of the mounting screws.

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85

Sencity Rail Antenna 1399.17.0125

Storage temperature (°C)	-55 to 85
IP rating	IP69
Solar radiation	DIN 75220
RoHS 2011/65/EU	compliant
REACH 2006/1907/EC	compliant

Environmental tests: EN 50155:2007

Flammability rating: DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back plate/base plate material	Aluminium

Related Products

9090.99.0062 Sencity Rail Mounting plate ***Customer specific***

9091.99.0257 Sencity Rail - M10 sealing washer kit

Related Documents

Mounting instruction	DOC-0000311051
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00144038
3D-model	DOC-0000326786

Additional Information

This product meets the Deutsche Bahn specifications for rolling stock equipment.