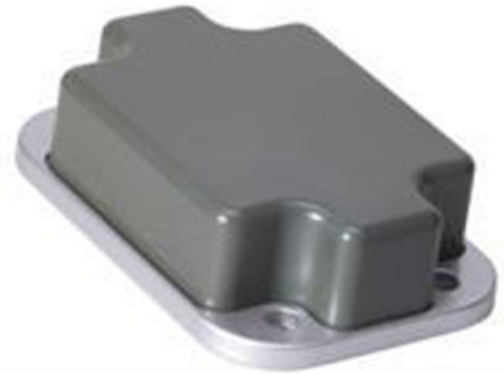


Sencity Rail Antenna 1399.17.0125

SWA-0825/360/5/30/V

Description

Railway rooftop antenna for GSM 900, GSM 1800, GSM 1900, UMTS, LTE and WiFi 2.4 GHz Band communication. Rugged design, meets EN 50155 railway standard. Extremely low profile (40mm). Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	790 - 806	806 - 870	870 - 960	1710 - 2170
VSWR	2.2	1.9	1.6	1.8
Impedance (Ohm)	50	50	50	50
Gain (dBi)	5	5	5	6

	Band 5	Band 6
Frequency (MHz)	2400 - 2500	2500 - 2700
VSWR	1.9	2.2
Impedance (Ohm)	50	50
Gain (dBi)	6	6

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	IP69K
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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[HUBER+SUHNER:](#)

[1399.17.0125](#)