HUBER+SUHNER® DATA SHEET Sencity Rail Antenna: 1399.17.0122



SWA-0859/360/4/0/V 3

Description

Railway rooftop antenna for GSM 900, GSM 1800,

GSM 1900, UMTS, LTE, WiFi and WiMAX 2.4, 3.5, 5.3 and 5.8 GHz Bands.

Rugged design, meets EN 50155 railway standard.

Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, CEN/TS 45545 (2009).

Works also on non-metallic surfaces.

Split installation support.

Optional grounding kit available.

Optional conduit support kit available to protect the cabling.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	790 - 806	806 - 960	1710 - 2170	2400 - 2700
VSWR	1.8	1.5	1.5	1.5
Gain (dBi)	5	5	7	9.5

	Band 5	Band 6
Frequency (MHz)	3400 - 3700	4900 - 5935
VSWR	1.5	1.5
Gain (dBi)	8	8

General Data

Nominal impedance 50Ω DC grounded Yes Polarisation vertical

Connector N, jack (female),

Composite power max. 100 W at ambient temperature 50 °C

Ground Plane: Indicated VSWR values are also valid for installations on

non-metallic surfaces (no specific ground plane requirements).

Issued: 06.09.11

Mechanical Data

90 x 100 x 256 (Height x Width x Depth) Dimensions (mm)

Weight 0.8 kg

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.

Environmental Data

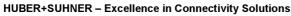
Environmental conditions outdoor Operation temperature (°C) -40 to 85 Storage temperature (°C) -40 to 85 Transport temperature (°C) -40 to 85 Solar radiation DIN 75220 RoHS 2002/95/EC compliant IP Rating: IP66/68 Environmental tests: EN 50155:2007

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

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It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only





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Rev.: P

Flammability rating DIN 5510-2, BS 6853, NF F16-101/102, CEN/TS 45545 (2009)

Material Data

Radome colour RAL 7043 (dark grey)

Radome material ASA_SAN
Back plate/base plate material Aluminium

Related Products

9091.99.0235 Sencity Rail Antenna grounding kit 9091.99.0236 Sencity Rail conduit Support Kit

Related Documents

 Mounting instruction
 DOC-0000295392

 Painting instruction
 DOC-0000256180

 Security instruction
 DOC-0000278984

 Outline drawing1
 DOU-00146327

 Outline drawing 2
 DOU-00154160

 3D-model (Step)
 DOC-0000334509

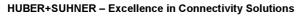
Additional Information

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

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

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