# **Data Sheet**

# **HUBER+SUHNER**

# Sencity Rail Antenna 1309.17.0093

## **Description**

Railway rooftop antenna for GSM-R 900

Rugged design, meets EN 50155 railway standard.

Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.

Works also on non-metallic surfaces.

An alternative antenna type for GSM-R is 741009 / 84460303



# **Product Configuration**

## **Technical Data**

#### **Electrical Data**

	Band 1
Frequency (MHz)	806 - 960
VSWR	1.5
Impedance (Ohm)	50
Gain (dBi)	6
Composite power max (W)	550
Ambient temperature (°C)	25

### **Ports**

	Port 1
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

## Connections

	Band 1
Port 1	X

# **General Data**

IMD level 143 dBc at carrier power 2x dBm

Ground plane: Indicated VSWR values are valid also for installations on non-metallic surfaces (no specific ground plane requirements).

# **Mechanical Data**

Dimensions (mm) 90 x 100 x 260 (Heigth x Width x Depth)

Weight (kg) 1

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

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IP rating IP68
Flammability rating DIN 5510
2011/65/EU (RoHS - including compliant 2015/863 and 2017/2102)

Lead-free soldered yes

WEEE 2012/19/EU no special marking needed

REACH 1907/2006/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**

9091.99.0189 Adapter plate for antenna 1399.17.0043/ .0044

Allows the replacement of the antenna from another antenna mounting footprint without any modifications of the mounting holes located on the vehicle's roof. Using this interface, the mounting hole dimension for the connector has to be 17 ... 42 mm and the antenna secured using four M10 screws.

## **Related Documents**

 Mounting instruction
 DOC-0000197320

 Painting instruction
 DOC-0000256180

 Security instruction
 DOC-0000278984

 Outline drawing
 DOU-00118290

 3D-model
 DOC-0000362879

## **Additional Information**

This product meets the Deutsche Bahn specifications for rolling stock equipment. Protected by Patents: US7327320B2, CN1765030B, AU2003218856A1, CA2521771C, SG114406, ZA200508290.

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

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