

# HUBER+SUHNER® DATA SHEET

## Sencity Rail Antenna: 1399.17.0125



Rev.: Z

**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, CEN/TS 45545 (2009)



### Product Configuration

#### Technical Data

##### Electrical Data

	<b>Band 1</b>	<b>Band 2</b>	<b>Band 3</b>	<b>Band 4</b>
Frequency (MHz)	790 - 806	806 - 870	870 - 960	1710 - 2170
VSWR	2.2	1.9	1.6	1.8
Gain (dBi)	5	5	5	6

  

	<b>Band 5</b>	<b>Band 6</b>
Frequency (MHz)	2400 - 2500	2500 - 2700
VSWR	1.9	2.2
Gain (dBi)	6	6

##### General Data

Nominal impedance	50 $\Omega$
DC grounded	Yes
Polarisation	vertical
Connector	N, jack (female), bottom
Composite power max.	100 W at ambient temperature 50 °C
Ground Plane:	Indicated VSWR values are valid for a metallic ground plane of 0.2 x 0.2m or larger.

##### Mechanical Data

Dimensions (mm)	40 x 100 x 145 (Height x Width x Depth)
Weight	0.488 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
IP rating	IP 69K
Solar radiation	DIN 75220
RoHS 2002/95/EC	compliant
Environmental tests:	EN 50155:2007
Flammability rating	DIN 5510-2, BS 6853, NF F16-101/102, CEN/TS 45545 (2009)

##### Material Data

Radome colour	RAL 7043 (dark grey)
---------------	----------------------

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

#### WAIVER!

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.



**HUBER+SUHNER AG**  
**RF Industrial**  
**9100 Herisau, Switzerland**  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
[www.hubersuhner.com](http://www.hubersuhner.com)

**HUBER+SUHNER – Excellence in Connectivity Solutions**

# HUBER+SUHNER® DATA SHEET

## Sencity Rail Antenna: 1399.17.0125



Rev.: Z

Radome material ASA\_SAN  
Back plate/base plate material Aluminium

### Related Products

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

### Related Documents

Mounting instruction	DOC-0000311051
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00144038
3D-model (Step)	DOC-0000326786

### Additional Information

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

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

#### WAIVER!

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.



**HUBER+SUHNER AG**  
**RF Industrial**  
**9100 Herisau, Switzerland**  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
[www.hubersuhner.com](http://www.hubersuhner.com)

**HUBER+SUHNER – Excellence in Connectivity Solutions**