

# HUBER+SUHNER® DATA SHEET

## Sencity Road Antenna: 1399.99.0127

Rev.: F



**SWA-0460/360/5/10/DFRX30**

### Description

Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck. Supports TETRA, WiFi 2.4, 5 GHz and IEEE 802.11p, GPS/Glonass. Offers a stick antenna socket and separate connector for each application. Single hole mounting, easy cabling feed-through.



### Product Configuration

#### Technical Data

##### Electrical Data

	Band 1	Band 2	Band 3
Frequency (MHz)	410 - 430	2400 - 2690	4900 - 5935
VSWR	2	1.8	1.8
Gain (dBi)	4	7	7

##### General Data

Nominal impedance	50 Ω
Polarisation	vertical
Pigtail	Length: 0.3 m
Composite power max.	10 W
Ground plane	metal ground plane is needed, min. 500x500mm

	<Band>	<Connector>	<Cable>	<Indicator>
Port/Connector 1	Band 1	SMA-m	EF316	yellow
Port/Connector 2	Band 2+3	SMA-f	EF316D	blue
Port/Connector 3	GPS/Glonass	TNC-m	EF316D	black
Port/Connector 4	stick ant. socket	TNC-f	EF316	red

Isolation between ports	>20 dB (Port 1 and 2)
Available stick antennas	see section 'Related products'

##### Electrical Data (GPS)

Frequency (MHz)	1574 - 1610
VSWR	2
Nominal impedance	50 Ω
Polarisation	circular right
Connector	TNC, plug (male)
Supported systems	GPS/Galileo and Glonass
LNA noise figure	2 dB
LNA current consumption	30 mA
LNA input voltage range	3..5V
Total gain @90° elevation	30 dBiC
Note	Values for LNA power consumption, noise figure and gain are given for a 5V operating voltage and may differ slightly for a lower voltage

##### Mechanical Data

Dimensions (mm)	82 x 83 x 208 (Height x Width x Depth)
Weight	0.41 kg
Stick antenna	max. length = 0.5m

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 Road Antenna: 1399.99.0127

Rev.: F



Mounting breakthrough Ø30mm

### 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	IP 69K, IP 68
Flammability	materials chosen acc. to UL 94-HB
Environmental tests	ISO 16750:2010
Corrosion	designed acc. to MIL-F-14072D (low corrosion design)
E-Mark	yes
CE-Mark	yes

### Material Data

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

### Related Products

9091.99.0246 FM Radio Stick antenna 88-108 MHz

### Related Documents

Mounting instruction	DOC-0000361395
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00202248
3D-model (Step)	DOC-0000367494

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**