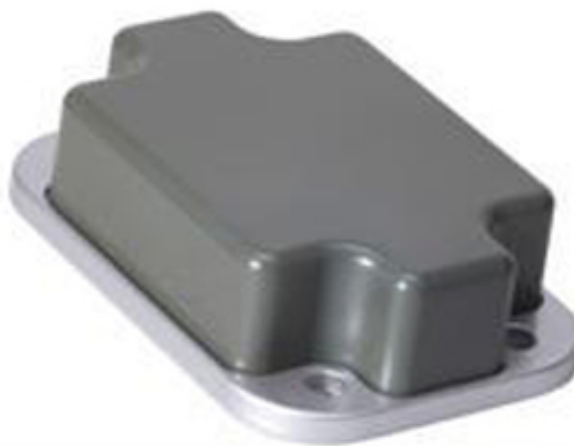


SENCITY® Rail Low Profile Antenna

1399.17.0125

Properties

- Railway rooftop antenna for 2G/3G/4G cellular and Wi-Fi 4/Wi-Fi 6 bands
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant according to EN 45545-2
- Multiple Antenna installations support Cellular and Wi-Fi MIMO
- Extremely low profile (40mm)



Electrical bands				
	Band 1	Band 2	Band 3	Band 4
Name	Cell / WiFi	Cell / WiFi	Cell/Wi-Fi	Cell/Wi-Fi
Frequency (MHz)	790 MHz ... 806 MHz	806 MHz ... 870 MHz	870 MHz ... 960 MHz	1350 MHz ... 2700 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.2	1.9	1.6	2
Gain (dBi)	5 dBi	5 dBi	5 dBi	5 dBi
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	550 W	550 W	550 W	350 W

	Band 5
Name	Cell/Wi-Fi
Frequency (MHz)	4900 MHz ... 6425 MHz
Impedance	50 Ω
VSWR	2.1
Gain (dBi)	8 dBi
Ambient Temperature	25 °C
Composite Power max	300 W

Electrical remarks	
Remarks	Indicated VSWR values are valid for a metallic ground plane of 0.2 x 0.2m or larger for the 806-6425 MHz frequency band. Indicated gain values will be achieved on a metallic ground plane of 1 x 1 m or larger.

SENCITY® Rail Low Profile Antenna

1399.17.0125

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

Connections	
Port number	Port 1
Band 1	✓
Band 2	✓
Band 3	✓
Band 4	✓
Band 5	✓

Mechanical data	
Weight	0.488 kg
Dimensions	40 mm x 100 mm x 145 mm (Height x Width x Depth)
Remarks	Mounting Shall be installed in longitudinal position to the wind/driving direction. Suitable for installation on high speed trains with a maximum speed of 500 km/hr. 4x composite sealing washers included for silicone-free sealing of the mounting screws.

Interface and material data	
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Radome colour	RAL 7043 (dark grey)
Back plate/base plate material	Aluminium
Back plate/base plate plating	Passivated (Plating)
Back plate/base plate colour	Grey
Housing material and surface treatment	Grey

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-55 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	IP67, IP69
Flammability rating	EN 45545-2
Solar radiation	DIN 75220
Standards	Railway EN 50155 Railway EN 45545

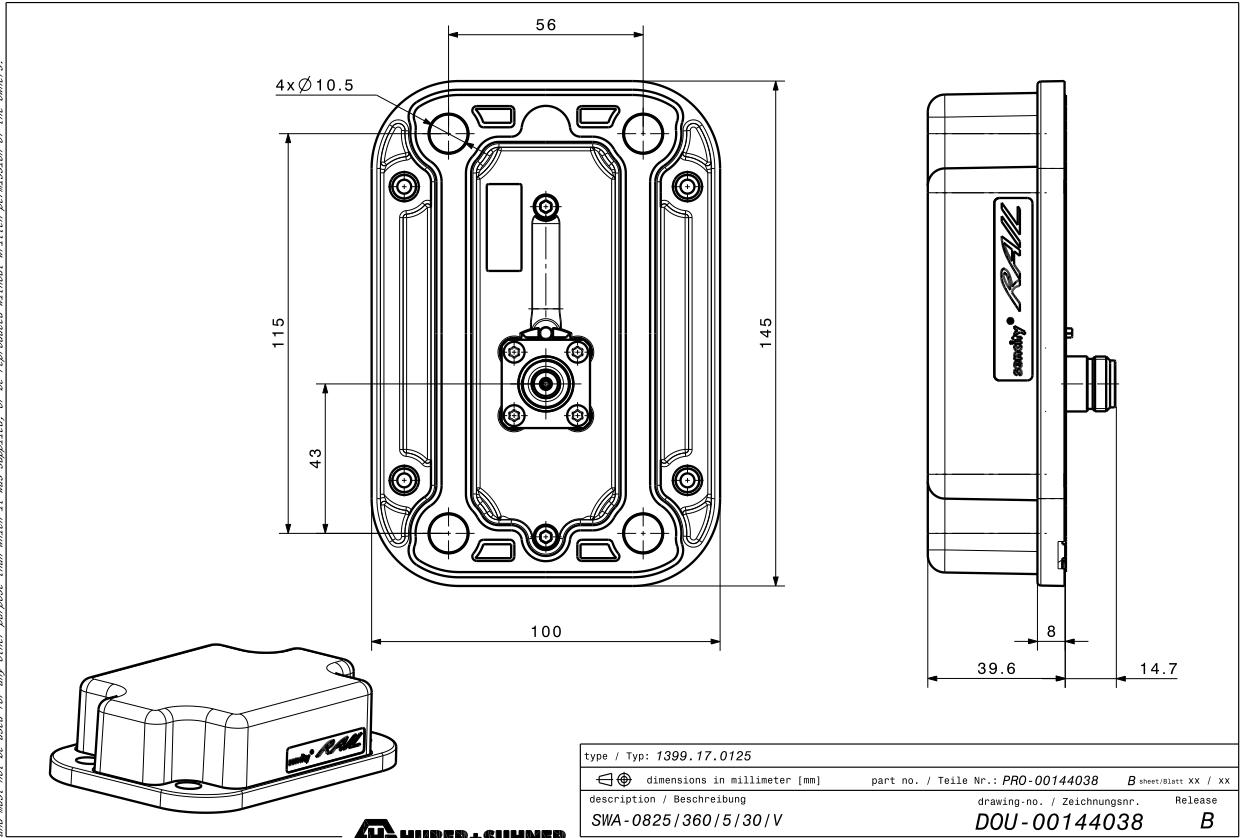
Environmental remarks	
Environmental tests: EN 50155:2007 Flammability rating: EN 45545-2. Corrosion Low corrosion design acc. to MIL-F-14072(E).	

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

SENCITY® Rail Low Profile Antenna
1399.17.0125

Outline drawing

Diese Zeichnung ist unser geistiges Eigentum und darf ohne unsere Einwilligung weder kopiert, reproduziert, noch Dritten weitergegeben oder in irgendeiner Weise zugänglich gemacht werden. (Art. 12 & Co.)
 This drawing is our intellectual property and may not be reproduced without written permission of the authors.



HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind. DOCUMENT PIM-P3264 / Date of publication: 06.02.2024 / uncontrolled copy