

SENCITY® Spot-M Yagi

1324.17.0113

Properties

- SENCITY® Spot-M linear polarized directional Yagi antenna
- Supports WLAN / Wi-Fi acc. to IEEE 802.11 b/g
- Half power beamwidth of 30° (vertical) and 30° (Horizontal)
- 14 dBi high gain version
- Railway approved acc. to EN50125-3 and EN 45545-2
- Wall and Mast mounting brackets included



Electrical bands	
	Band 1
Frequency	2400 MHz ... 2484 MHz
VSWR	1.7
Impedance	50 Ω
Gain	14 dBi
HPBW vertical	30 °
HPBW horizontal	30 °
Ambient Temperature	25 °C
Composite Power max	50 W

Electrical remarks	
Remarks	The antennas signal ground is electrically isolated from ground of the backplane/bracket. DC grounding of the antenna radiator is achieved by electrical connection to the outer conductor of the RF cable pigtail (signal ground).

Ports	
	Port 1
Connector	N, jack (female)
Cable type	SX_04172_B-60
Cable length	0.6 m
Polarization	vertical
DC grounded	Yes

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Mechanical data	
Weight	0.85 kg
Dimensions	80 mm x 420 mm x 80 mm (Height x Width x Depth)
Windload	front: 14 N at 200 km/h, lateral: 134 at 200 km/h
Remarks	Mounting holes M6 (max. 7mm diameter) Bracket: flexible in all 3 axes for tilting and rotation of antenna. Allows mast/roof/wall mounting.

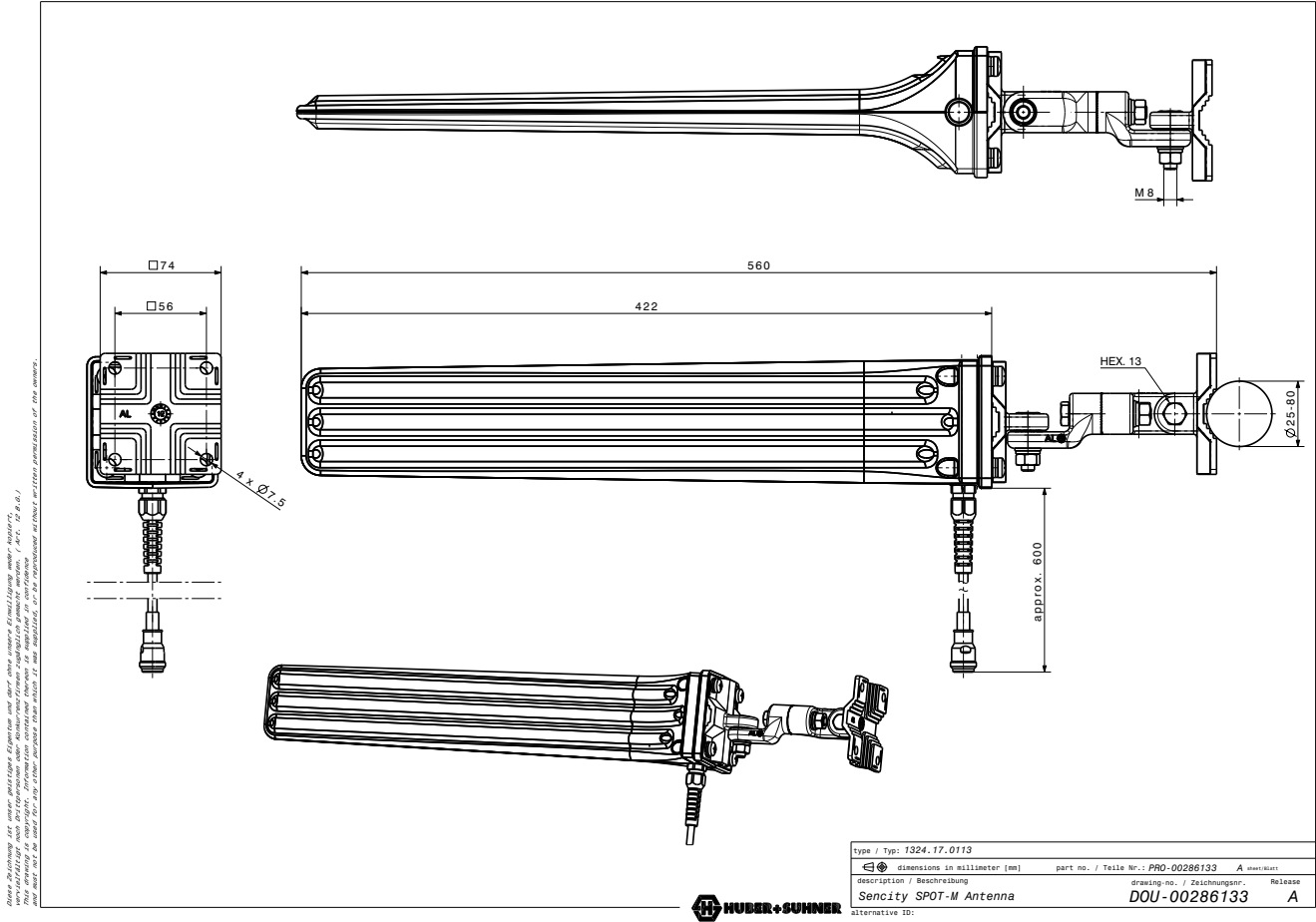
Interface and material data	
Radome material	PC (Polycarbonate)
Radome colour	RAL 7044 (grey)

Environmental data	
Operation temperature	-40 °C ... 70 °C
Storage temperature	-40 °C ... 70 °C
Transport temperature	-40 °C ... 70 °C
Environment (application)	Indoor/Outdoor
Ingress protection (IP Rating)	Mated / IP65

Environmental remarks	
Solar radiation:EN 50125-3:2004 §4.9, 1120 W/m ² for 20h	
Air pressure:EN 50125-3:2004 §4.2, Altitude Class A1 (up to 1400m)	
Air pulse pressure:EN 50125-3:2004 §4.2, 1kPa/s	
Rain:EN 50125-3:2004 §4.6, delivery rate: 6mm/min	
Vibration/Shock: EN 50125-3:2004 §4.13, position profile: "outside the track"	
Pollution:EN 50125-3:2004 §4.11, pollution levels: 4B1, 4S1	
Corrosion:MIL-F-14072 E Type 1 "exposed"	

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Outline drawing



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