

## Sencity Rail Antenna 87010008

### Description

Railway rooftop antenna for 380-430 MHz.  
Rugged design, meets EN 50155 railway standard.  
Fire retardant acc. to EN 45545-2.  
Works also on non-metallic surfaces.



### Product Configuration

#### Technical Data

##### Electrical Data

|                          | Band 1    |
|--------------------------|-----------|
| Frequency (MHz)          | 380 - 430 |
| VSWR                     | 1.5       |
| Impedance (Ohm)          | 50        |
| Gain (dBi)               | 4         |
| Ambient temperature (°C) | 25        |

##### Ports

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

##### Connections

|        | Band 1 |
|--------|--------|
| Port 1 | X      |

##### General Data

Indicated VSWR values are valid for a metallic ground plane of 1M x 1M or larger.

##### Mechanical Data

|                 |                                         |
|-----------------|-----------------------------------------|
| Dimensions (mm) | 150 x 145 x 85 (Height x Width x Depth) |
| Weight (kg)     | 0.5                                     |

Radiator: Copper and brass.  
Flange: Aluminum.  
Radome: Fiberglass.  
All screws and nuts: Stainless steel.  
Colour: Grey.  
Sealing: Neoprene and silicon.

This antenna, tested by an independent institute, is DC grounded to protect against lightning and short circuit with high voltage lines.

Packaging size (outside): 150 x 90 x 190 mm

##### Environmental Data

|                          |         |
|--------------------------|---------|
| Environmental conditions | outdoor |
|--------------------------|---------|

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|                                                                                |                           |
|--------------------------------------------------------------------------------|---------------------------|
| Operation temperature (°C)                                                     | -40 to 85                 |
| Storage temperature (°C)                                                       | -40 to 85                 |
| IP rating                                                                      | IP66                      |
| Flammability rating<br>2011/65/EU (RoHS - including<br>2015/863 and 2017/2102) | EN 45545-2<br>compliant   |
| Lead-free soldered                                                             | yes                       |
| WEEE 2012/19/EU                                                                | no special marking needed |
| REACH 1907/2006/EC                                                             | compliant                 |

Environmental tests: EN 50155:2018-05

Flammability rating: EN 45545-2.

### Material Data

|                                |           |
|--------------------------------|-----------|
| Radome colour                  | grey      |
| Back plate/base plate colour   | black     |
| Back plate/base plate material | Aluminium |

### Related Documents

|                      |                |
|----------------------|----------------|
| Mounting instruction | DOC-0000864319 |
| Painting instruction | DOC-0000256180 |
| Security instruction | DOC-0000278984 |
| Outline drawing      | DOU-00389183   |
| 3D-model             | DOC-0000864321 |

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