

## SENCITY® Spot-L RFID 1309.17.0111

### Description

SENCITY Spot-L UHF RFID tag reader antenna  
RHCP right-hand circular polarized  
Frequency range: 902 - 928 MHz for FCC applications  
Ruggedized conveyor belt portal antenna  
Ingress protection IP54 (IEC 60529)



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1
Frequency (MHz)	902 - 928
VSWR	1.5
Impedance (Ohm)	50
Gain (dBi)	11
3dB beamwidth (h) (°)	63
3dB beamwidth (v) (°)	30
Composite power max (W)	6
Ambient temperature (°C)	25
Front to back ratio (dB)	-20
Axial ratio (dB)	3
Vertical electrical tilt (°)	0

#### Ports

	Port 1
Connector	N, jack (female)
Polarization	circular right
DC grounded	Yes

#### General Data

Sidelobes level -12 dB (max) -15 dB (typ)

#### Mechanical Data

Dimensions (mm) 650 x 320 x 32 (Height x Width x Depth)  
Weight (kg) 2.8

#### Environmental Data

Environmental conditions indoor  
Operation temperature (°C) -55 to 71  
Storage temperature (°C) -55 to 71  
Transport temperature (°C) -55 to 71  
IP rating IP54  
Flammability rating UL 94-HB  
2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant  
WEEE 2012/19/EU special marking needed  
REACH 1907/2006/EC compliant

## SENCITY® Spot-L RFID 1309.17.0111

Humidity ETSI EN300-2-4 T4.1E / 144h / 95%

Solar radiation ASTM G53 / 1000 h

Salt spray IEC 68-2-11 Ka / 500 h

Thermal shock nono-operating -30°C to 70°C, ramp 30 °C/min

Mechanical shock operating 10 g, 11 msec, half sine pulse

Vehicle vibration operating 1 g rms, 10 - 500 Hz, in 3 axis (6 hours total)

Quasi random vibration 20 g rms for 4 hours

### Material Data

Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back plate/base plate material	Aluminium

### Related Products

9091.99.0184 Mounting bracket

### Related Documents

Mounting instruction	DOC-0000225622
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DPR-00265112
3D-model	DOC-0000457574