

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

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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