

## Sencity® SPOT-L RFID under-belt antenna 1309.17.0110

SPA-900/65/9/0/LCP\_C

### Description

Sencity® SPOT-L UHF RFID dual-band tag reading antenna  
 ETSI and FCC frequency ranges 865 - 870 MHz & 902 - 928 MHz  
 LHCP left-hand circular polarized  
 Ruggedized conveyor under-belt antenna  
 IP54 for indoor mounting



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1
Frequency (MHz)	865 - 928
VSWR	2
Gain (dBi)	8
3dB beamwidth (h) (°)	65
3dB beamwidth (v) (°)	16
Front to back ratio (dB)	20
Axial ratio (dB)	5
Vertical electrical tilt (°)	0

#### General Data

DC Grounding	Yes
Polarisation	circular left
Connector	N, jack (female)
Min. bending radius static	15 mm
Composite power max.	6 W at ambient temperature 25 °C

Reading range area: 1020 x 420 mm (typical)

Reading range height: 1000 mm (typical)

Tag type: 7 cm x 1.5 cm or larger

#### Mechanical Data

Dimensions (mm)	1020 x 380 x 11.5 (Height x Width x Depth)
Weight (kg)	4.5

Radome: ANTI-STATIC, material UHMW-PE

Base plate: Aluminium with chemical conversion coating

Mechanical load permitted: 70 Kg on 30 x 30 cm antenna radom surface

Type of pigtail cable: RG-316 with outer diameter 2.6 mm

Position of pigtail connection see outline drawing

#### Environmental Data

Environmental conditions	indoor
Operation temperature (°C)	-10 to 50
Storage temperature (°C)	-30 to 70
IP rating	IP54
Flammability rating	UL 94-HB
RoHS 2011/65/EC	compliant
Lead-free soldered	yes

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REACH 2006/1907/EC compliant

Humidity: ETSI EN300-2-4 T4.1E (144 h, 95%)

Mechanical shock: IEC 60721-3-4 / 4M3

Vibration: IEC 60721-3-4 / 4M3 (30 min / axis)

### Material Data

Radome colour black

### Related Documents

Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00258029
3D-model	DOC-0000453977

### Additional Information

Allows operation with constant contact between moving conveyor belt and antenna radome