



ID-Sense-Sawblade-A870-S3D

UHF Inlay

IC Speciality

Identiv's ID-Sense-Sawblade-A870-S3D is an advanced RFID inlay engineered to precisely monitor temperature and humidity levels across diverse settings, including cold chain logistics. Featuring Axzon Magnus®S3 M3D technology, this passive UHF inlay excels as an RFID sensor, offering remarkable performance. It is adept at detecting and recording temperature fluctuations and, if needed, can track ambient moisture conditions as well.

Key Features

- For use in various environments to achieve accurate results on the **temperature and humidity** conditions
- **Maintenance-free** and **battery-free** sensor allows cost-efficient investment
- Wireless transmission of digitized sensing information to off-the-shelf readers, utilizing **specially developed software for temperature sensing**.
- Available as **dry inlay**, **wet inlay**, or **label**

Frequency

- UHF 860 MHz to 960 MHz

Antenna Dimensions

- 24 x 94 mm

Chip

- Axzon Magnus S3 M3D

International Standards

- EPCglobal™ Gen2 (v. 2.0.1)
- ISO/IEC 18000-6C

Industries

- Food and beverage
- Industrial
- Healthcare and pharma
- Logistics

Applications

- Cold chain management
- Humidity sensing
- Supply chain management
- Temperature sensing

Specifications

Format	Dry Inlay	Wet Inlay	Label
Product Part Number	7001005	7001006	7001007
Manufacturing Part Number	I00XXXAZ0241	I00PADAZ0241	L15XADAZ0241
IC	Axzon Magnus S3 M3D	Axzon Magnus S3 M3D	Axzon Magnus S3 M3D
EPC & User Memory	128 bit	128 bit	128 bit
Antenna Dimension	94 x 24 mm	94 x 24 mm	94 x 24 mm
Tag Dimensions	94 x 24 mm	97 x 27 mm	97 x 27 mm
International Standards	EPCglobal™ Gen2 (v. 2.0.1) ISO/IEC 18000-6C	EPCglobal™ Gen2 (v. 2.0.1) ISO/IEC 18000-6C	EPCglobal™ Gen2 (v. 2.0.1) ISO/IEC 18000-6C
Frequency	Global UHF frequency bands (860 – 960 MHz).	Global UHF frequency bands (860 – 960 MHz).	Global UHF frequency bands (860 – 960 MHz).
Face Material	-	Clear PET	White PET
Thickness	~ 190 µm	~ 275 µm	~ 300 µm
Pitch	30 mm	30 mm	30 mm
Web Width	120 mm	120 mm	120 mm
Operating Temperature	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH
Storage Information	2 years under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH	1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH	1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH

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Care and handling: To minimize static charge and environmental impact, it's crucial to adhere to standard industry practices related to electronics and RFID when handling RFID inlays, as they are sensitive to ESD.

Application: To ensure that this product meets specific requirements, customers/users must thoroughly test it under end-use conditions. Identiv does not claim that the product is suitable for any particular purpose or use. Additionally, Identiv retains the right to modify, supplement, change, or discontinue product offerings at any time without prior notice. While the information presented here is believed to be reliable, Identiv does not guarantee the accuracy or correctness of the data.

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Warranty: Please refer to Identiv standard terms and conditions: <https://www.identiv.com/terms-and-conditions>

