

PRODUCT DATASHEET

Confidex Paper Reel Label™



Label tuned for high dielectrics and designed specifically for paper reel core tagging.

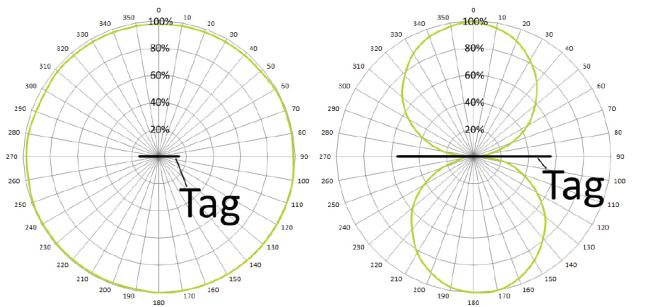
ELECTRICAL SPECIFICATION

- Device type**
UHF RFID / EPCglobal Gen2v2
- Operational frequency**
Global 865-928MHz
- IC type**
Impinj® M730
- Memory configuration**
EPC 128bit; TID 96 bit
- EPC memory content**
Unique random 96bit EPC in every label
- Read range (2W ERP)***
Free air: Up to 10m / 33 ft
On plastic: up to 22 m / 72 ft
Paper reel: up to 10m / 33 ft*
- Applicable surface materials****
Plastic, wood, glass, works also on paper reel core.

* Read range on paper reel is highly dependent on the type and amount of paper used.

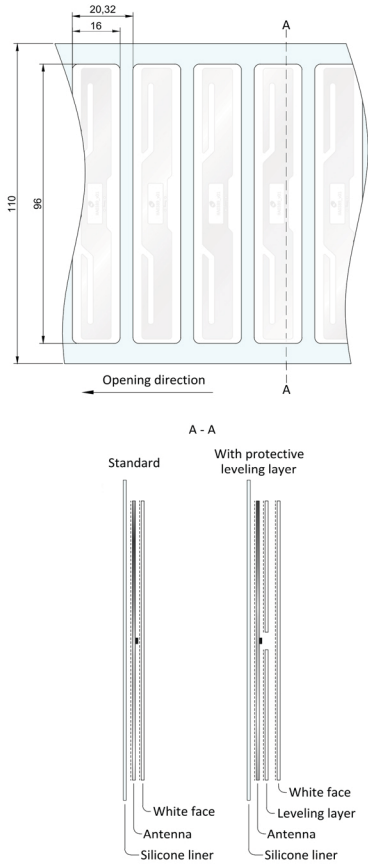
** Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may influence performance.

RADIATION PATTERNS



MECHANICAL SPECIFICATION

- Tag materials**
Printable white PET, resin ribbon is recommended
- Background adhesive**
Permanent adhesive for general purpose use
- Weight**
< 1 g
- Delivery format**
2000 pcs on reel
- Pitch on reel**
20,32 mm / 0.8"
- Reel core inner diameter**
76 mm / 3"
- Tag dimensions**
For 3003495: 96 x 16 x 0.2 mm / 3.78 x 0.63 x 0.01 in
For 3004032: 96 x 16 x 0.34 mm / 3.78 x 0.63 x 0.013 in



ENVIRONMENTAL RESISTANCE

- Operating temperature**
-35°C to +85°C / -31°F to 185°F
- Ambient temperature**
-35°C to +85°C / -31°F to 185°F
- Storage condition**
1 year in +20°C / 50% RH (shelf life for adhesive)
- Expected lifetime**
Years in normal operating conditions

Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Confidex for more specific information.

PERSONALIZATION

Pre-encoding

- Customer-specific encoding of EPC memory. Locking permanently or with password.

Customized printing

- Customer-specific layout including logo, text, numbers, barcodes etc.

INSTALLATION INSTRUCTIONS



Tag polarization

Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Adhesive of the label will provide best adhesion in 24 hours after the installation. Bond strength can be improved with firm application pressure. Always clean and dry the surface for obtaining the maximum bond strength. Avoid touching the background adhesive.

Minimum bending diameter of label is defined to be 50mm. Do not bend the label above the limit. Never touch the IC location. IC is a sensitive electrical component and can be damaged if unexpected pressure is applied on it.

ORDER INFORMATION

Product number: 3003945

Product name: Confidex Paper Reel Label™ M730

Product number: 3004032

Product name: Confidex Paper Reel Label Protected™ M730, With leveling layer

For additional information and technical support contact Confidex Ltd.

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