

PRODUCT DATASHEET

Confidex Carrier Classic™



Special washable label for returnable plastic containers with strong adhesive.

ELECTRICAL SPECIFICATION

Device type

UHF RFID / EPCglobal Gen2v2

Operational frequency

Global 865-928MHz

IC type

Impinj M780™

Memory configuration

EPC 496 bit; User 128 bit; TID 96 bit

EPC memory content

Unique random 96bit EPC in every label

Read range (2W ERP)*

On plastic up to 18 m / 59 ft

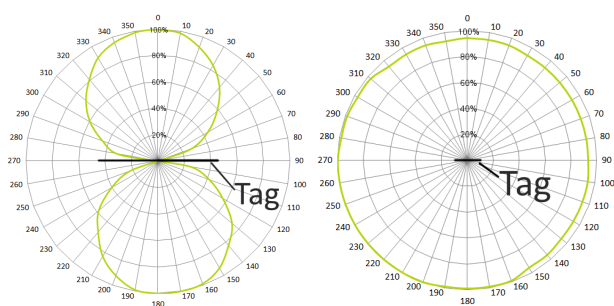
On cardboard up to 15 m / 49 ft

Applicable surface materials*

Non-metallic surfaces

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.

RADIATION PATTERNS



MECHANICAL SPECIFICATION

Tag materials

Printable white PET, resin ribbon recommended

Background adhesive

High performance acrylic adhesive specifically for low surface energy plastics

Weight

0,1 g

Delivery format

2000 pcs on reel

Pitch on reel

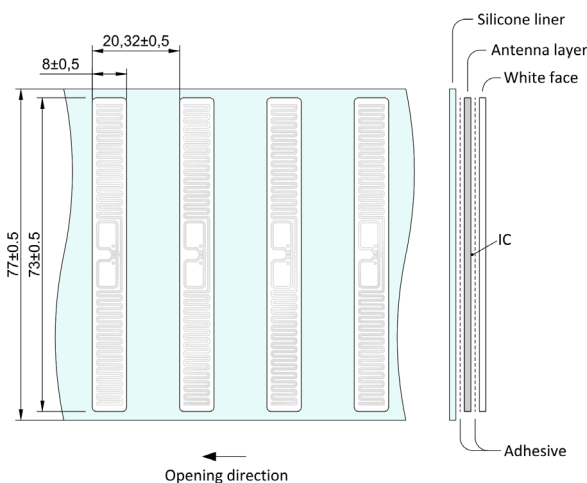
20,32 mm / 0.8 in

Reel core inner diameter

76 mm / 3 in

Tag dimensions

73 x 8 x 0,2 mm / 2.87 x 0.31 x 0.01 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

IP classification

IP68, tested 5 hours in 1m deep water

Washing resistance

Tolerates industrial washing processes. Tested according to IPX9K with water at 60° angle, 80-100bar, and 80°C. Water flow rate 14-16l/min.

Chemical resistance

No physical or performance changes in:

- 168h Salt water (salinity 10%) exposure
- 168h Motor oil exposure
- 168h Sulfuric acid (10%, pH 2) exposure
- 24h NaOH (10%, pH 13) exposure
- 20min Acetone exposure

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 OPTIONS

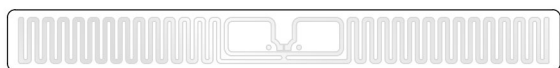
Pre-encoding

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

Customized printing

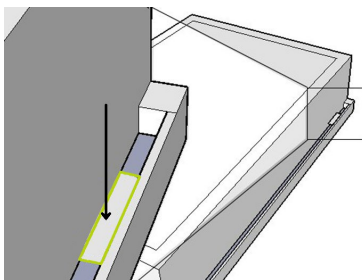
- Customer-specific layout including logo, text, numbers, barcodes etc.

INSTALLATION INSTRUCTIONS



← Tag polarization →

While planning the installation, most recommended location for the Confidex Carrier Classic™ label is in a position, where the structure of the identified asset provides protection against mechanical stresses such as impacts or jet streams. There's no need for line of sight between reader and label so it can be installed for example like shown in picture below.



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.

During attachment to the identified asset, please avoid touching the background adhesive. If the location on the asset needs to be changed, please use a new tag instead of re-placing the used one; the adhesion will suffer from the re-placement.

Minimum bending diameter of the Confidex Carrier Classic™ is defined to be 50mm. Do not bend the label below 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: 3004546

Product name: Confidex Carrier Classic™ M780

For other versions, additional information and technical support contact Confidex Ltd.

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