

PRODUCT DATASHEET

Confidex Steelwave Classic™



Thin all-surface-tag solution for returnable transit item tracking with extreme performance.

ELECTRICAL SPECIFICATION

Device type

UHF RFID / EPCglobal Gen2v2

Air interface protocol

EPC Class1 Gen2 ISO 18000-6C

Operational frequency

ETSI 865 - 869MHz

FCC 902 - 928 MHz

IC type

Impinj Monza 4QT™

Impinj Monza 4E™ (upon special request)

Memory configuration

With Monza 4QT: EPC 128 bit; User 512 bit; TID 96 bit

With Monza 4E: EPC 496 bit; User 128 bit; TID 96 bit

EPC memory content

Unique number encoded as a default

Read range (2W ERP)*

On metal up to 12m / 40ft

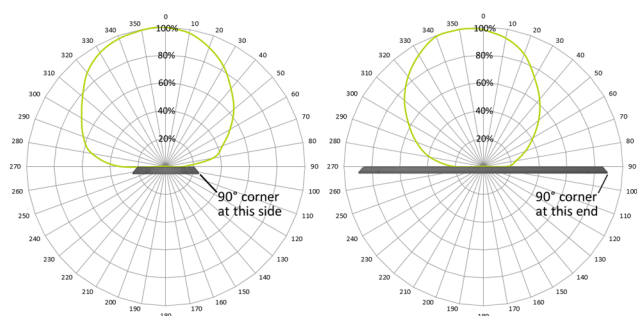
Other materials up to 11m / 36ft

Applicable surface materials*

All surfaces.

* 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). ETSI = 865 - 868 MHz, FCC = 902 - 928 MHz. Different surface materials may have an effect on performance.

RADIATION PATTERNS



MECHANICAL SPECIFICATION

Tag materials

High quality engineering plastic. By default delivered without printing. Personalized printing protected with cover film.

Background adhesive

High performance acrylic adhesive specifically for metal and painted metal surfaces

Weight

12 g

Delivery format

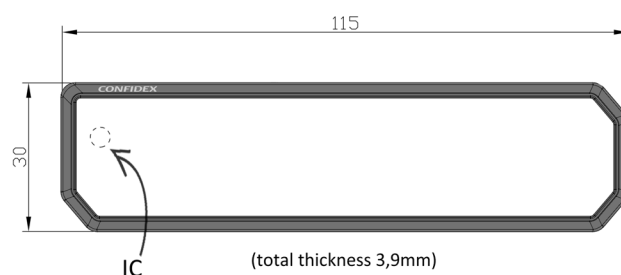
Single

Amount in box

50 tags

Tag dimensions

115 x 30 x 3,9 mm / 4.53 x 1.18 x 0.15 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

Water resistance

IP68

Washing resistance

Tolerates industrial washing with standard solvents. Washing process should be tested in final application.

Chemical resistance

No physical or performance changes in:

- 168h Sulfuric acid (10%, pH 2) exposure

- 168h Motor oil exposure

- 168h Salt water (salinity 10%) exposure

- 1h NaOH (10%, pH 13) exposure

Acetone should be avoided

Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

Expected lifetime

Years in normal operating conditions

Values 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.

Kreski

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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.
- Printing is protected with additional cover film.

Personalization Kit

- Confidex Steelwave Classic also available as a Personalization Kit where RFID label is delivered on a 1000pcs reel separately to the hard plastic part. RFID label can be printed and encoded with standard RFID printers and is easy to apply on plastic part before taken into use. Reel width 112mm. Label is shaped to allow attachment only in one direction. Follow the same installation instructions when attaching the RFID label to plastic part as described in the next chapter.

INSTALLATION INSTRUCTIONS

Confidex Steelwave Classic™ polarization is along the longest dimension of the tag like shown below.



When attaching the tag ensure the following

- Select a smooth surface without uneven areas below tag
- Avoid touching the background adhesive and IC location

When mounting the tag with its adhesive background, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or isopropyl alcohol. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Remove the liner and place the tag on the correct location. Ideal application temperature is from +16°C to +38°C (+60°F to +100°F), bond strength can be improved with firm application pressure and moderate heating from +38°C to +54°C (+100°F to +130°F). Application at temperatures below 10°C (50°F) is not recommended. If application is done at temperatures below 10°C (50°F) surface must be extremely clean, dry and it has to be warmed before attaching the tag to achieve best possible adhesion. Keep the tags in warm before attaching.

ORDER INFORMATION

Product number: 3001032

Product name: Confidex Steelwave Classic™ M4QT ETSI

Product number: 3001033

Product name: Confidex Steelwave Classic™ M4QT FCC

Following products are available upon special request:

Product number: 3001038

Product name: Confidex Steelwave Classic™ M4E ETSI

Product number: 3001039

Product name: Confidex Steelwave Classic™ M4E FCC

For additional information and technical support contact Confidex Ltd.

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