

PRODUCT DATASHEET

Confidex Silverline Micro™



Global on metal RFID label with small footprint and industry leading printing capabilities

ELECTRICAL SPECIFICATION

Device type

Class 1 Generation 2 passive UHF RFID transponder

Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

Operational frequency

Global 865 – 928 MHz

IC type

Impinj Monza 4i™

Memory configuration

EPC 256 bit; User 480 bit; TID 96 bit

EPC memory content

Same EPC in every label as a default

Read range (2W ERP)*

On metal up to 1,5 m / 5 ft

Applicable surface materials*

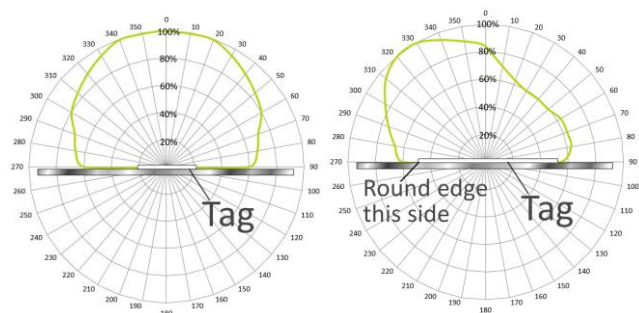
Optimized for metal or painted metal

Attachment on curved surface

Label can be attached on a curved surface. Check installation instructions for more details.

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may have an effect on performance.

RADIATION PATTERNS



MECHANICAL SPECIFICATION

Label surface

Printable white PET, Zebra 5095 resin ribbon recommended

Background adhesive

High performance acrylic adhesive optimized for metal and painted metal surfaces

Weight

0,3 g

Delivery format

800 pcs good labels on reel, bad ones marked with "XXX" printing.

Pitch on reel

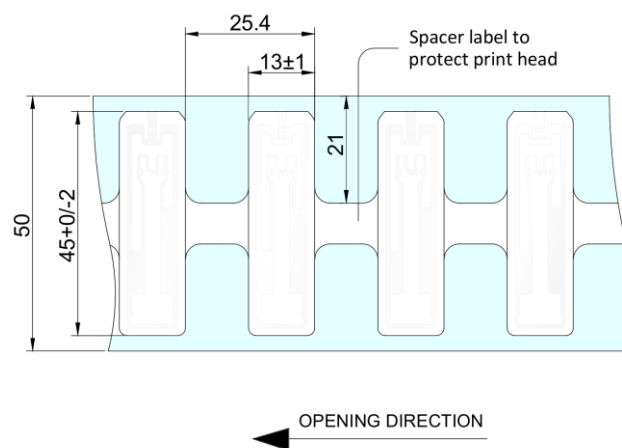
25,4 mm / 1"

Reel core inner diameter

76 mm / 3"

Tag dimensions

45 x 13 x 1,1 mm / 1.77 x 0.51 x 0.04"

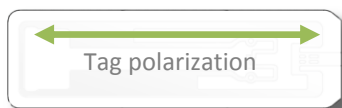


PRINTER COMPATIBILITY

The Confidex Silverline family is designed and verified to work with the **Custom Zebra ZT410 RFID Silverline** printer. Other Zebra printers are not recommended or supported. Contact your Authorized Zebra Reseller for ordering information.

Set-up instructions and printer configurations specifically for Silverline tags and the Custom ZT410 RFID Silverline printer is available on Zebra.com or by contacting Zebra Technical Support.

INSTALLATION INSTRUCTIONS



When attaching the label ensure the following

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

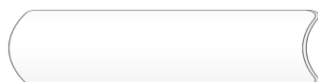
When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or acetone for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer’s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

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.

For optimal read range it is important to test different placement of label. Generally attaching the label more close to the edge of metal asset gives better read range.



Minimum bending diameter of the Confidex Silverline Micro™ is 100mm. For optimal performance please bend the label in the orientation shown below.



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C / -31°F to +185°F

Peak temperature

+110°C / 230°F for 10min

Water resistance

IP68, tested for 5 hours in 1m deep water

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
- 30min NaOH (10%, pH 13) exposure

Acetone should be avoided

Storage condition

1 year in +20°C / 50% RH

Environmental values are the best recommendations; resistance against different 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.

ORDER INFORMATION

Zebra part number: 10027755

Product name: Confidex Silverline Micro™ M4i

For additional information and technical support, please contact your Authorized Zebra Reseller or Zebra Technical Support.

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