PRODUCT DATASHEET
Confidex Silverline Classic™

Global on metal RFID label with industry leading printing capabilities and proven durability

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)*
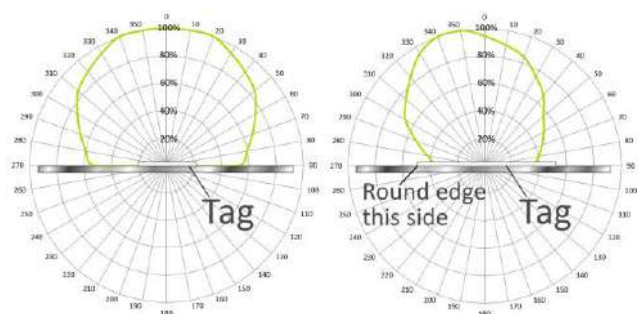On metal up to 6 m / 20 ft
Applicable surface materials*
Optimized for metal or painted metal
Attachment on curved surface
Label can be attached on a curved surface. Check installation instructions for more details.

* 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
2,2 g
Delivery format
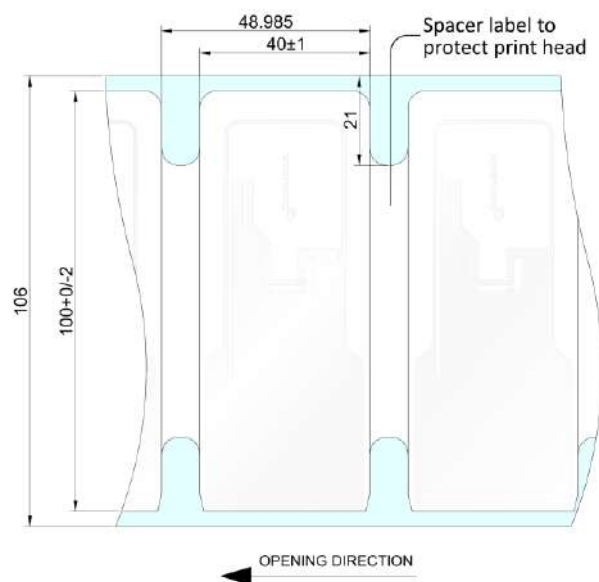350 pcs good labels on reel, bad ones marked with "XXX" printing.
Pitch on reel
48,985 mm / 1,93"
Reel core inner diameter
76 mm / 3"
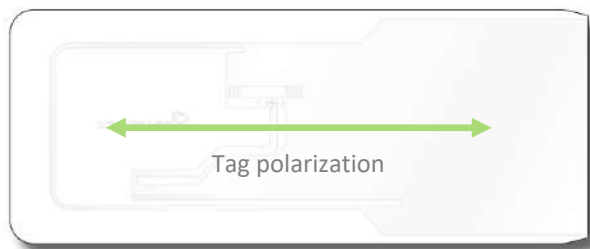**Tag dimensions**
100 x 40 x 1,1 mm / 3.94 x 1.57 x 0.04"

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.

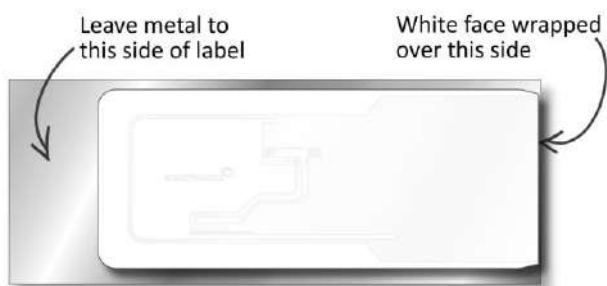## INSTALLATION INSTRUCTIONS

Tag polarization

When attaching the label ensure the following
- Select a smooth surface without uneven areas below tag
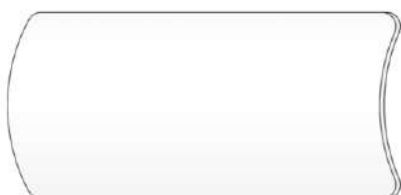- Avoid touching the background adhesive and IC location

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

Optimal read range is achieved when label is attached close to the edge of metal asset, like shown in below picture.

Leave metal to this side of label

White face wrapped over this side

Minimum bending diameter of the Confidex Silverline Classic™ 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: 10027757
Product name: Confidex Silverline Classic™ M4i

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