PRODUCT DATASHEET
Confidex Silverline Classic™

Versatile 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
ETSI 865 – 869 MHz
FCC 902 – 928 MHz

IC type
Impinj Monza 4QT™

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

EPC memory content
Same EPC in every label as a default

Read range (2W ERP)*
- On metal up to 5 m / 16 ft
- On Plastic up to 4 m / 13 ft
- Liquid containers up to 2 m / 7 ft

Applicable surface materials*
All surfaces

Attachment on curved surface
Label can be attached on a curved surface in any orientation. For optimal performance, the following orientation is recommended.

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

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 g

Delivery format
500 pcs good labels on reel, bad ones marked with “XXX” printing. Typical yield >99%

Pitch on reel
48,985 mm / 1.93”

Reel core inner diameter
76 mm / 3”

Tag dimensions
100 x 40 x 0.8 mm / 3.94 x 1.57 x 0.03”

RADIATION PATTERNS

Read range on metal
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, tested for 65 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
- 1h 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.

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 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. 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.

Minimum bending diameter of the Confidex Silverline Classic™ is 50mm. Do not bend the label above the limit.

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.

ORDER INFORMATION

Zebra part number: 10025343
Product name: Confidex Silverline Classic™ M4QT ETSI

Zebra part number: 10025340
Product name: Confidex Silverline Classic™ M4QT FCC

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

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