BEONTAG SILVERLINE CLASSIC II

beontag

Description

On metal RFID label with proven durability and industry leading read range on different materials

Electrical specifications

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® M730

Memory configuration
EPC 128 bit; TID 96 bit

EPC memory content
Unique random 96bit EPC in every label

Read range (2W ERP)*
ETSI and FCC
On metal up to 15 m / 50 ft
On plastic up to 9 m / 30 ft
On liquid up to 10 m / 33 ft

Applicable surface materials*
Optimized for metal but works on any surface

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.

Mechanical specifications

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
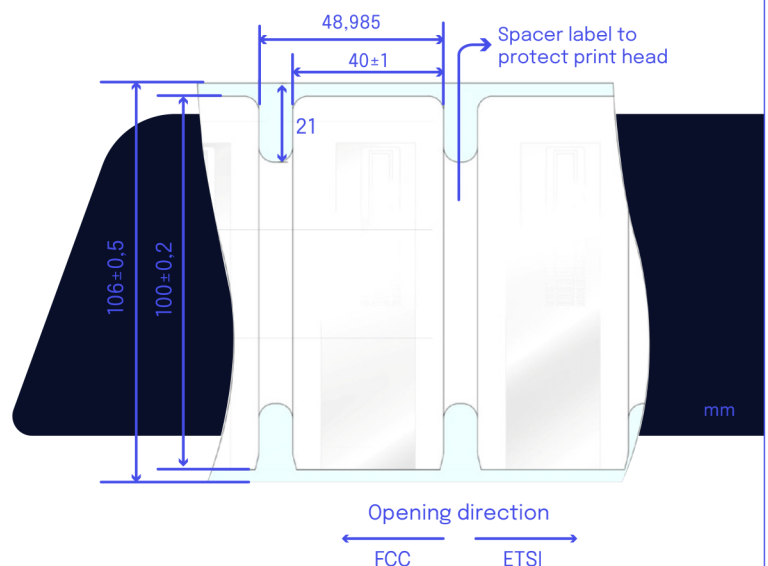250 pcs good labels on reel, bad ones marked with "XXX" printing.
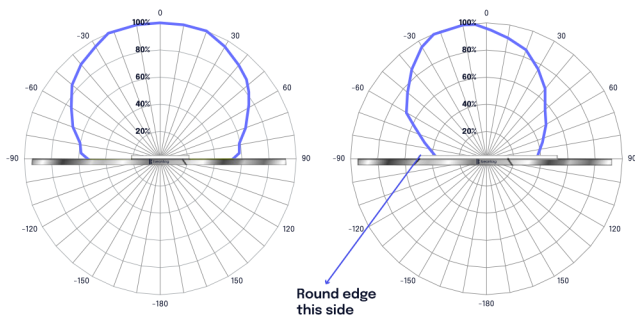
Pitch on reel
48,985 mm / 1,93"

Reel core inner diameter
76 mm / 3"

Tag dimensions
100 x 40 x 1,3 mm / 3.94 x 1.57 x 0.05"

48,985

40±1

21

106±0,5

100±0,2

Spacer label to protect print head

mm

Opening direction

FCC   ETSI

Radiation pattern

Round edge this side

Printer Compatibility

The **Beontag Silverline** family is designed and verified to work with the **Custom Zebra ZT410 RFID Silverline and ZT411 On Metal** printers. 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 compliant printers are available on Zebra.com or by contacting Zebra Technical Support.

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 Motor oil exposure
• 168h Salt water (salinity 10%) exposure
• 2h Sulfuric acid (10%, pH 2) exposure
• 30min NaOH (10%, pH 13) exposure
• Wiping with acetone
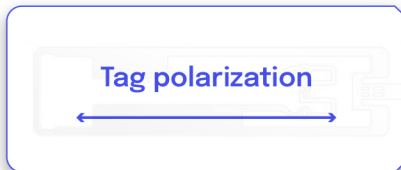Printing durability is recommended to be tested in the final application.

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

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.
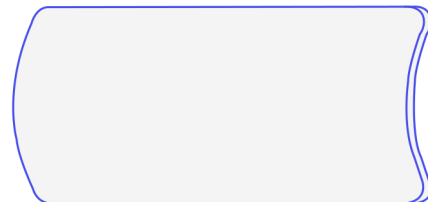
Ideal application temperature is from +16°C to +38°C (+60°F to +100°F), bond strength can be improved with firm application pressure and moderate heating from +38°C to +54°C (+100°F

to +130°F). Application at temperatures below 10°C (50°F) is not recommended. Final bond strength is achieved in 72 hours.

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 **Beontag Silverline Classic II** is 100mm. For optimal performance please bend the label in the orientation shown below.

Order information

Zebra part number: **10026769**
Product name: **Beontag Silverline Classic II M730 ETSI**

Zebra part number: **10026770**
Product name: **Beontag Silverline Classic II M730 FCC**

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

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About Beontag

From the science of graphic and label materials, RFID and wireless IoT enablers, we create solutions across the value chain to deliver digital transformation for businesses around the world.

Sustainability is at the core of what we do and we strongly believe that by substituting non-renewable materials and innovating through more sustainable and renewable products, we act as an ESG enabler for our customers' value chain.

Beontag is one of the world's leading providers of RFID and wireless IoT solutions, being present in more than 40 countries with 7 R&D centers and 2,000 employees, in constant development of technological and sustainable solutions designed to connect items, and gain efficiency and end-to-end traceability

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