Product Datasheet

BEONTAG SURVIVOR



Description

All-surface tag for logistics, transportation and yard management applications with top performance

Electrical specifications

Device type
UHF RFID / EPCglobal Gen2v2

Operational frequency
ETSI 865 - 869 MHz
FCC 902 - 928 MHz

ETSI IC options and memory configurations
Impinj M780™
• EPC 496 bit; User 128 bit; TID 96 bit

FCC IC options and memory configurations
Impinj M780™
• EPC 496 bit; User 128 bit; TID 96 bit

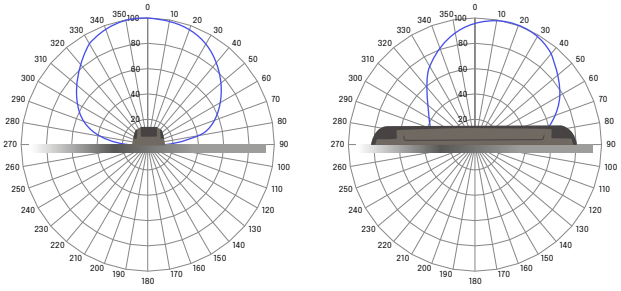
EPC memory content
Unique number encoded as a default

Read range (2W ERP)*
M780:
• On metal up to 27 m / 90 ft
• Other materials up to 10 m / 33 ft

Applicable surface materials*
All surfaces

*Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.

Radiation pattern



Mechanical specifications

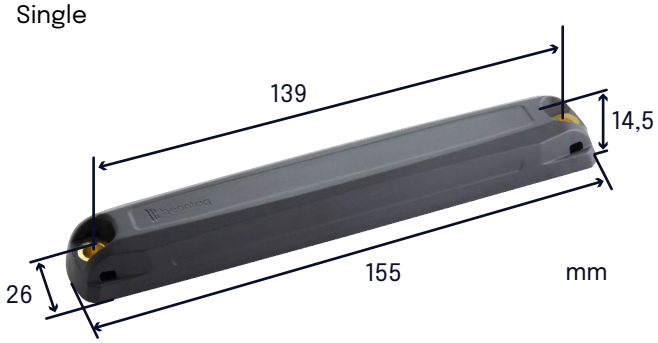
Tag materials
High quality engineering plastics.

Weight
31 g

Delivery format
Single

Amount in box
100 pcs

Dimensions
155mm x 26mm x 14,5mm / 6.1” x 1.02” x 0.57”



Personalization options

Pre-encoding
Customer-specific encoding of EPC or user memory. Locking permanently or with password.

Customized data label
Customer specific layout including logo, text, numbers, barcodes etc.

Customized laser engraving
Customer specific layout including logo, text, numbers, barcodes etc.

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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

IP classification
IP68

Weather ability
Good, including UV-resistance and sea water

Chemical resistance
No physical or performance changes in:
- 168h Motor oil exposure
- 48h Salt water (salinity 10%) exposure
- 48h Sulfuric acid (10%, pH 2) exposure
- 48h NaOH (10%, pH 13) exposure

Generally good resistance with moderate concentrations of acids, alcohols, alkalis, detergents and cleaners. Acetone should be avoided

Expected lifetime
Years in normal operating conditions

Values in the table 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

Installation instructions

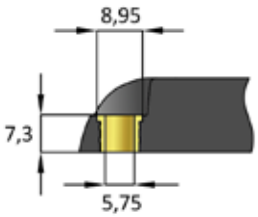
Beontag Survivor can be attached with several fixing methods:

1. High performance acrylic adhesive (not included by default)
When background adhesive is ordered the tag is delivered with adhesive attached. Clean and dry the surface for obtaining the maximum bond strength. Ideal application temperature is from +21˚C to +38˚C (+70˚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). Installation at temperatures below 10˚C (50˚F) is not recommended.

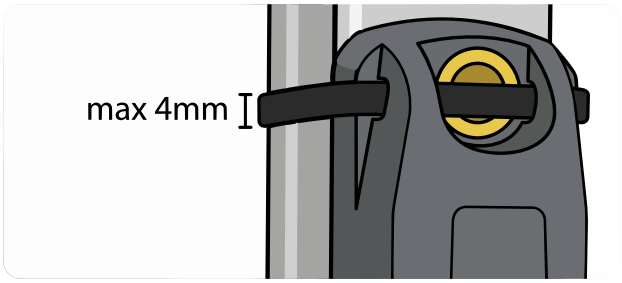
2. Other adhesive fixings
- **Polyurethane adhesives**
- **Epoxies**
- **Silicone sealants**

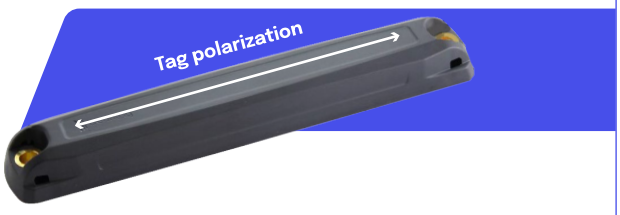
Structural adhesives like 3M DP410 provide very high bond strength and resistance against mechanical stress. When tag is attached with sealant adhesive, insert a layer of sealant under the tag and press the tag on the surface. Increase the bond by adding extra sealant from the tag holes. Adhesive type and thickness may have an effect on tag performance. Insert maximum 2mm layer of adhesive under the tag. Please refer to adhesive supplier for exact fixing instructions and test the performance with chosen adhesive.

3. Mechanical fixing
Mechanical fixing is recommended to be used in every application that includes risk for high mechanical stress or low temperature during tag fixing. Mechanics are designed for M5 sized screw. Refer the dimensional picture for screw selection.



4. Cable tie
Beontag Survivor has specific design that allows also plastic or metallic cable ties to be used for fixing. Maximum width of tie is 4mm. Please see picture below for an example.
Polarization of Beontag Survivor is according to its longest dimension. This should be taken into account when using linearly polarized reader antennas.





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Order informations

Product number: **3004277**
Product Name: **Beontag Survivor M780 ETSI**

Product number: **3004278**
Product Name: **Beontag Survivor M780 FCC**

For other versions, additional information and technical support please contact Beontag.

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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

CONTACT US FOR MORE INFORMATIONS:
beontag.com

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V 1.3 UPDATED SEP. 26

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