Product Datasheet

BEONTAG IRONSIDE FIN

Description

Industrial robustness combined with a flexible zip-tie attachment for hard-to-tag items

Electrical specifications

Device type
UHF RFID / EPCglobal Gen2v2

Operational frequency
Global 865-928 MHz

IC type
NXP UCODE 8™

Memory configuration
EPC 128 bit; TID 96 bit

EPC memory content
Unique number encoded as a default

Read range (2W ERP)*
On all materials up to 15m / 50 ft

Applicable surface materials*
Designed for metallic and plastic pipes

* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

Mechanical specifications

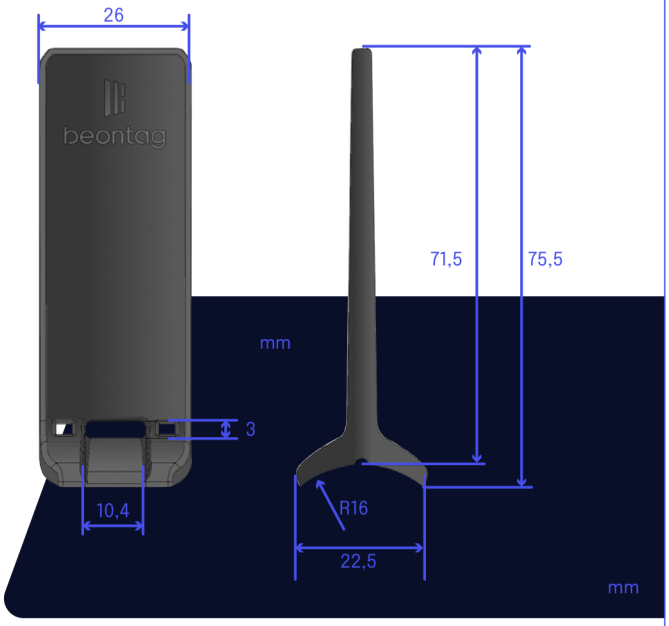
Tag materials
High quality thermoplastic elastomer. Tag is flexible for improved resistance again mechanical impacts and flexibility for different radius of items.

Weight
8 g

Delivery format
Single

Amount in box
240

Tag dimensions
77,5 x 26 x 22,6 mm / 3.1 x 1 x 0.9 in
(±1mm)



Personalization options

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

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

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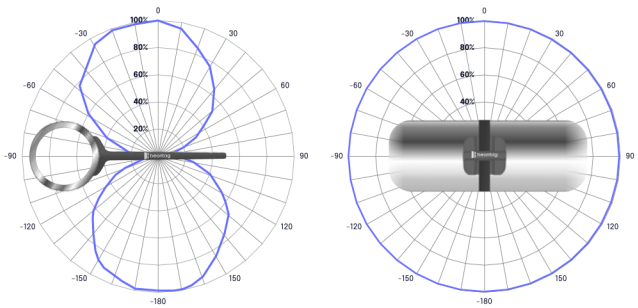
Radiation pattern

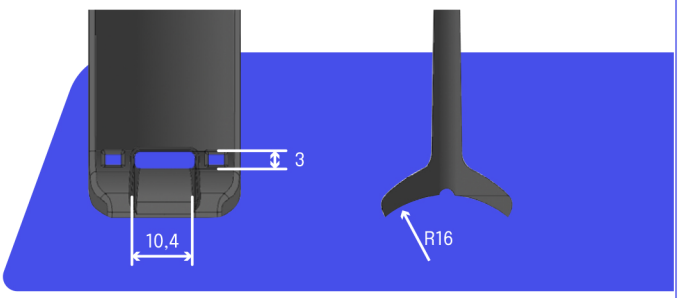
Radiation pattern can be affected by the shape of the tagged asset. Testing in real environment is recommended to find the best reading orientation.



Installation instructions

Beontag Ironside Fin is designed to be attached on round assets using cable tie. Tag is optimized to withstand also close proximity of metals.
The material and shape of the asset where tag is attached to will also impact the final performance and radiation pattern. Therefore, it is recommended to test the optimal location in the real environment. You may also contact Beontag for recommendations.

Beontag Ironside Fin is designed to be attached with maximum 10mm / 0.4” zip tie width. The base of the tag is 16mm in radius but due to flexible materials it is possible to tag wide range of items without strict radius limitation.



Environmental resistance

Operating temperature
-40˚C to +85˚C / -40˚F to +185˚F

Peak temperature
+140˚C / +284˚F for 10min

Water resistance
IP68

Weather ability
Excellent, including UV-resistance and sea water

Chemical resistance
No performance changes in:
- 168h NaOH (10%, pH 13)
- 168h Sulfuric Acid (10%, pH 2)
- 168h Motor oil
- 168h Salt water (salinity 10%)
- 2h Acetone

Storage condition
1 year in +20˚C / 50% RH

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 be tested. Contact Beontag for more specific information.

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Order information

Product number: **3004104**
Product name: **Beontag Ironside Fin U8**

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