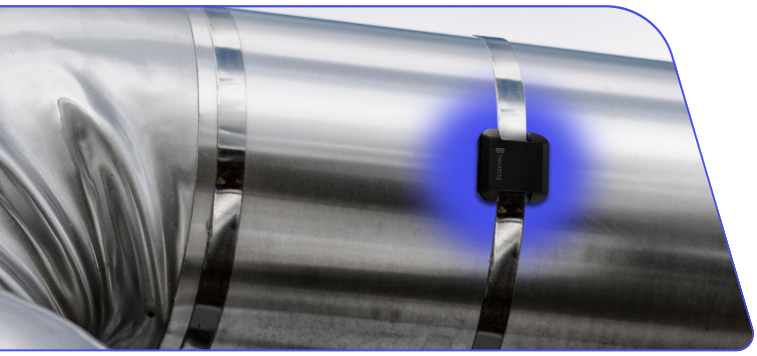
Product Datasheet

BEONTAG IRONSIDE CLASSIC STRAP



Description

Robust hard tag for industrial applications with an innovative strap mounting option that allows for quick and secure installation without the need for screws or adhesives.

Electrical specifications

Device type
RAIN RFID / EPCglobal Gen2v2

Operational frequency
Global 865-928MHz

IC type
NXP U9xm

Memory configuration
NXP U9xm – 3 configurations available
- 128 bits of EPC memory, 752 bits of User memory
- 256 bits of EPC memory, 624 bits of User memory (as default)
- 496 bits of EPC memory, 384 bits of User memory

EPC memory content
Unique number encoded as a default

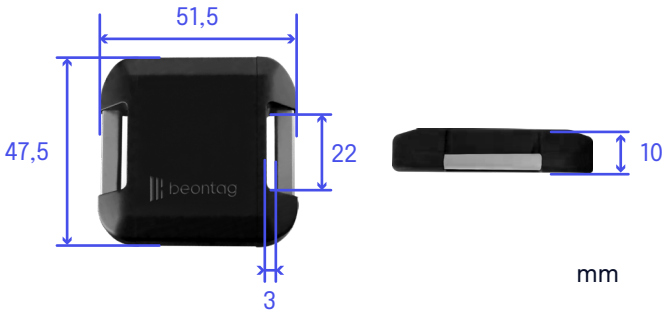
Read range (2W ERP)*
On metal - 20m / 65 ft
Off metal - 8m / 26 ft

Applicable surface materials*
Ideal application on metal, works on any surface.

Other comments to add
Designed for mounting with strap or similar.

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

Mechanical specifications



Tag materials
High quality engineering plastics. Surface thermoplastic elastomer.

Delivery format
Single

Amount in box
375 pcs

Weight
22g

Dimensions
51,5 x 47,5 x 10 mm/
2.03 x 1.87 x 0.39 in

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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BEONTAG IRONSIDE CLASSIC STRAP

Environmental resistance

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

Peak temperature
+125˚C /+257˚F 1h duration

IP classification
IP68

Expected lifetime
Years in normal operating conditions

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

Generally good against: Methanol (moderate concentrations), ethanol (moderate concentrations), glycerine, ethylene glycol, consistent grease, most acids, bases and tensides such as sulfuric acid 96%, nitric acid 10%, NaOH 50%, soap solution 30%. Testing recommended for hydrocarbons and carboxylic acids. Acetone should be avoided.

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.

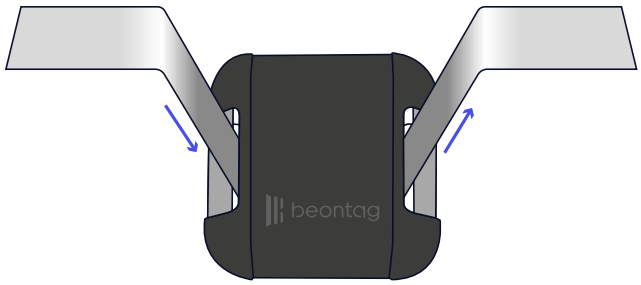
Installation instructions

Beontag Ironside Classic Strap can be attached with several fixing methods:

1. 3M 300LSE high performance acrylic adhesive
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. Structural adhesive
Structural adhesives such as 3M DP110 and SikaFast 5215 provide very high bond strength and resistance against mechanical stress. When tag is attached with structural adhesive, insert a layer of adhesive under the tag and press the tag on the surface. Increase the bond by adding extra sealant from the tag holes. Insert maximum 2mm layer of adhesive under the tag. Please contact adhesive supplier for exact fixing instructions.

Metal above the tag improves performance



3. Additional fixing with a strap or rim
Ironside Classic Strap is designed for flexible mounting with a strap, metal rim or similar, utilizing the integrated plastic brackets. This makes it easy to replace and re-use tag within an application. If metallic band or material is used, it should not go over or cover the top surface. Metal behind the tag may improve the tag performance considerably. Contact Beontag for more information for additional mounting recommendations.

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Product Datasheet

BEONTAG IRONSIDE CLASSIC STRAP

Order information

Product number: **3005397**
Product Name: **Beontag Ironside Classic Strap U9xm**

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 INFORMATION:
beontag.com

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