# PRODUCT DATASHEET

## Confidex Survivor B™

All-surface tag with extreme performance that is powered with Confidex BOOST™ battery assisted passive technology.

### ELECTRICAL SPECIFICATION

**Device type**
UHF RFID transponder
**Air interface protocol**
EPCGlobal Class3 Gen2, compliant with:
- EPCGlobal Class 1 Gen2 (ISO 18000-6C)
- ISO 18000-6D (TOTAL)
- AIAG™ B-11
- ATA Spec 2000 Low memory tag compliant

**Operational frequency**
EU 865 - 869 MHz, US 902 - 928 MHz
**IC type**
EM4325
**Memory configuration**
EPC 352 bit; User 3072 bit; TID 48 bit (unique)
**EPC memory content**
Unique 96 bit EPC encoded as a default
**Read range (2W ERP)***
Up to 60m / 200ft
**Default mode**
Delivered in passive mode with default sensitivity
**Applicable surface materials***
All surfaces

* 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. With BAP technology the reader sensitivity is in important role when it comes to maximum read range.

### PERSONALIZATION OPTIONS

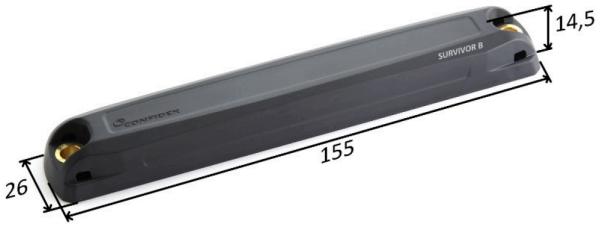
**Pre-encoding**
- Customer specific encoding of EPC or user memory. Locking permanently or with password

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

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

### MECHANICAL SPECIFICATION

**Tag materials**
High quality engineering plastics.
**Battery**
Disposable lithium battery. Contact Confidex for recycling instructions.
**Weight**
34 g
**Delivery format**
Single
**Amount in box**
100 pcs
**Dimensions**
155mm x 26mm x 14,5mm / 6.1” x 1.02” x 0.57”




### ENVIRONMENTAL RESISTANCE

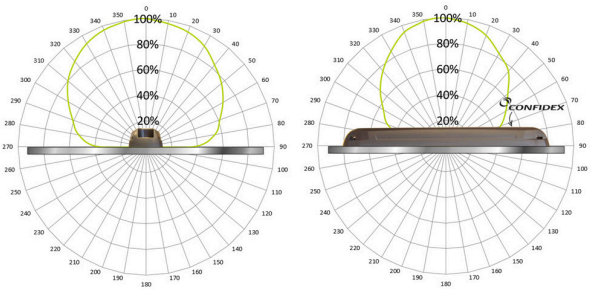
**Operating temperature**
-35°C to +65°C / -31°F to +149°F
**Ambient temperature**
-35°C to +65°C /-31°F to +149°F
**IP classification**
IP68
**Weather ability**
Good, including UV-resistance and sea water
**Chemical resistance**
No physical or performance changes in:
- 168h Motor oil exposure
- 48h 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 battery lifetime**
Years in normal operating conditions with continuous reading. Extreme performances will affect the lifetime.

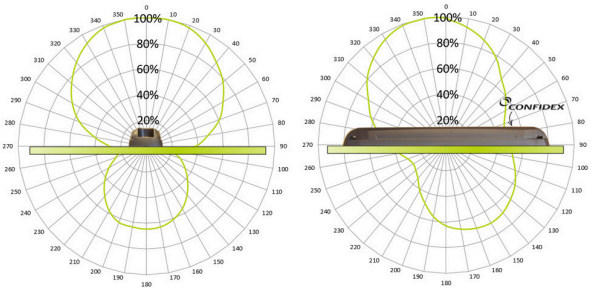
*Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product’s final suitability for certain environmental conditions is recommended to be tested. Contact Confidex for more specific information.*

## RADIATION PATTERNS

**On metal**




**On plastic**




## INSTALLATION INSTRUCTIONS

**Confidex Survivor B™ can be attached with several fixing methods:**

1. High performance acrylic adhesive (not included by default)

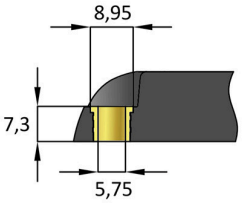
When background adhesive is ordered the tag is delivered with adhesive attached. Clean and dry the surface for obtaining the maximum bond strength. Ideal application temperature is from +21°C to +38°C (+70°F to +100°F), bond strength can be improved with firm application pressure and moderate heating 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. Insert maximum 2mm layer of adhesive under the tag. Please refer to adhesive supplier for exact fixing instructions.

3. Screw or pop rivet

Mechanical fixing is recommended to be used in every application that includes risk for high mechanical stress or low temperature during tag fixing. Refer the dimensional picture for selecting the best size for screw or pop rivet.




4. Cable tie

Confidex Survivor B™ 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 Confidex Survivor B™ is according to its longest dimension.

## ORDER INFORMATION

**Product number:** 3000857
**Product name:** Confidex Survivor B™ EM4325 ETSI

**Product number:** 3000858
**Product name:** Confidex Survivor B™ EM4325 FCC

For other versions, additional information and technical support contact Confidex Ltd.

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