Reliable industrial grade Bluetooth® Low Energy beacon for industrial identify, sense and locate applications.

**ELECTRICAL SPECIFICATION**

- **Device type**
  - Bluetooth® Low Energy beacon

- **Air interface protocol**
  - Bluetooth 4.2
  - NFC: ISO/IEC 14443A

- **Compliancy**
  - CE certified
  - FCC-ID: 2AMK9-CFXBLE-1

- **Operational frequency**
  - ISM: 2.45 GHz
  - NFC: 13.56 MHz

- **SOC**
  - Nordic Semiconductor NRF52832

- **Memory configuration**
  - 512 kB FLASH, 64 kB RAM

- **Configuration interface**
  - NFC interface for fast deployments and configuration

- **Sensor**
  - Built-in temperature sensor; other sensors by request

- **Sensitivity**
  - -96 dBm sensitivity (Bluetooth® Low Energy)

- **Read range**
  - Up to 200 m / 650 ft

- **Battery type**
  - 2 x CR2477 coin battery for maximal lifetime

- **Applicable surface materials**
  - Can be attached to any surface

- **Encapsulation materials**
  - Polyurethane coating

- **Weight**
  - 70 g

- **Delivery format**
  - Single

- **Tag dimensions**
  - 56 x 54 x 21.3 mm / 2.20 x 2.13 x 0.84 in

**MECHANICAL SPECIFICATION**

- **Encapsulation materials**
  - Polyurethane coating

- **Weight**
  - 70 g

- **Delivery format**
  - Single

- **Tag dimensions**
  - 56 x 54 x 21.3 mm / 2.20 x 2.13 x 0.84 in

**ENVIRONMENTAL RESISTANCE**

- **Operating temperature**
  - -20°C to +60°C / -4°F to +140°F

- **Water resistance**
  - Good, tested 5 hours in 1m deep water (IP68)

- **Vibration resistance**
  - JESD22-B103B, service condition 1; 3-axis vibration with 20G acceleration

- **ESD immunity**
  - ±8 kV according to EN 61000-4-2 (air discharge)
  - ±4 kV according to EN 61000-4-2 (contact discharge)

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

- **Expected lifetime**
  - Up to 10 years (depending on operating mode)

### Notes

- * Sensor is located inside the plastic housing, which limits real time measurement of the ambient temperature. Sensor calibration is available as additional service.
- ** Read ranges are measured in laboratory environment and there can be some variation in real application.

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OPERATING MODES

**Eddystone**

Confidex Viking Tough™ beacon utilizes Eddystone™ open standard frame format ensuring straightforward implementation on a wide range of Bluetooth® Low Energy devices. Following Eddystone™ frame types are supported:

- **Eddystone™-UID** frame broadcasts 16-byte Beacon ID composed of a 10-byte namespace and a 6-byte instance.

- **Eddystone™-URL** frame broadcasts a URL using a compressed encoding format.

- **Eddystone™-TLM** frame broadcasts telemetry information as temperature.

- **Eddystone™-EID** frame broadcasts and encrypted ephemeral identifier that changes periodically.

Eddystone™-EID frame operating mode requires service for resolving the ephemeral ID. Please contact Confidex for more information.

Confidex Viking™ Tough beacon can be configured to be compatible with AirFinder by LinkLabs, Trimble and HERE operating modes.

INSTALLATION INSTRUCTIONS

Confidex Viking Tough™ can be attached with several fixing methods:

1. **Mechanical fixing – Screw**

   Mechanical fixing is recommended to be used in every application that includes risk for high mechanical stress or low temperature during tag fixing. Screw size M5 is to be used for fixing.

2. **Mechanical fixing – Cable tie**

   Plastic or metallic cable ties can also be used for fixing Confidex Viking Tough™. Maximum width of cable tie is 4 mm.

3. **High performance acrylic adhesive**

   When mounting the tag with adhesive, 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.

ORDER INFORMATION

**Product number:** 3002061  
**Product name:** Confidex Viking Tough™

Availability: Please contact Confidex Smart Industries Sales at www.confidex.com/contact-us

For additional information and technical support, please contact Confidex Ltd.

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