

# GLOBAL TAG **SOCIAL DISTANCING BEACON BLE** (with Vibration, Buzzer and LED)



Global Tag **SOCIAL DISTANCING BEACON BLE with Vibration, Buzzer and LED** is a BLE (Bluetooth Low Energy 4.2) **Smart Beacon** designed to make sure people keep the safety distance between them. The most important additional feature (in red color, below in this document) it's the immediate activation of alarms for social distancing, through vibration, buzzer and led. It has been developed to meet all the functions requests due to pandemic Covid19.

- 39mm diameter plastic housing
- **ON/OFF button** with additional functions (reset, alarm)
- Battery **CR2477** replaceable
- **When the battery is low, two lights will flash once every 5 seconds.**
- Press-fit housing closure
- Up to **200m** detection distance
- **iBeacon** and **Eddystone** (UID, URL, TLM) compliant
- Sticker with Mac Address (and its QRcode) and Friendly Name on the beacon surface
- LED function for **Pick to Light**
- **Accelerometer with different sensibilities setting**
- Optionally, **NFC** integrated
- **GATEWAY FUNCTION FOR SOCIAL DISTANCING AND CONTACT TRACING. BEACON CAN LISTEN AND DETECT ANOTHER BEACON IN THE PROXIMITY AREA (from 1meter to 2meters.). When it occurs, the beacon can:**
  - 1) Emit light signals (blinking LED)
  - 2) Start to vibrate
  - 3) Activate the buzzer mode
  - 4) Send a special "Contact" advertising packet to allow the Safety manager to intervene promptly.
  - 5) Store into beacon memory the Mac Address of the beacons detected in the proximity area.
- **BEACON CAN ALSO COMMUNICATE WITH SMARTPHONES OR GATEWAY DEVICES.**

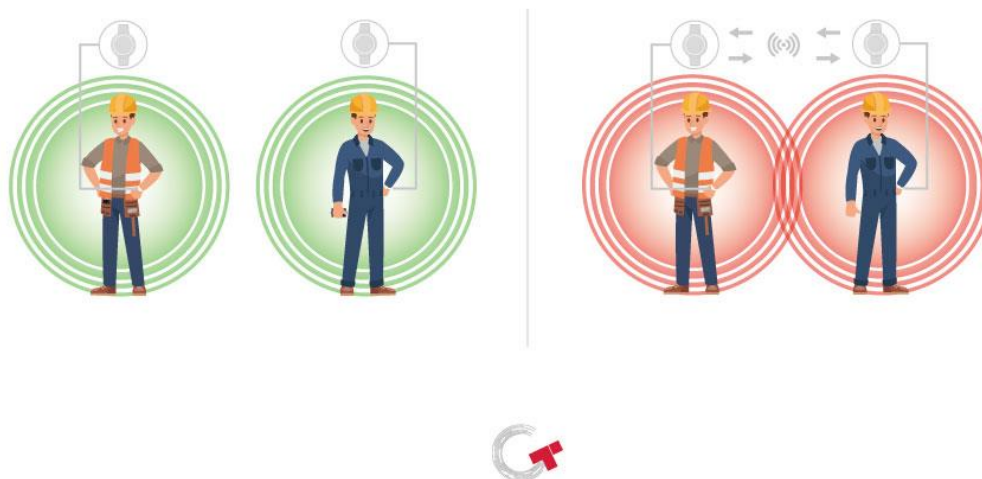


Fig.1 – How the beacon works. If the beacon listens another beacon nearby, it activates the alarms (vibration, buzzer and led). It also store the listened Mac Address in its memory and sends a special advertising packet.

## MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

**Dimensions:** Ø39mm diameter / Ø1,53in diameter

**Thickness:** 15mm / 0.59in

**Weight:** 45gr (including battery)

**Material:** PC (Polycarbonate)

**Color:** White (customized on request).

**Class Protection:** IP65

**Battery type:** CR2477 replaceable (Panasonic®).

**Battery life:** 3ne year (with Broadcast Interval: 1 second and Tx Power: 0dB). **IF THE GATEWAY FUNCTION IS ON, battery life is about 30days, but it can reach up to 60/90days, according to the configuration.**

**System-On-Chip (SoC):** Nordic 52832

**Storage Temperature:** -15°C to +50°C / 5°F to +122°F

**Operating Temperature:** -15°C to +45°C / 5°F to +113°F

**Delivery format:** Singulated

**Expected lifetime:** Years in normal operating conditions

**G-Sensor:** ST Microelectronics mod. LIS3DH

## ELECTRONIC AND OPERATIVE PARAMETERS

**Operation Frequency:** 2400-2483,5MHz

**IEEE Standard:** 802.15.1 (Bluetooth 4.2 Low Energy BLE)

**Transmission distance:** up to 200meters

**Transmission Power:** 4 different Level (-23dBm / -6dBm / 0dBm / +4dBm)

**Default Broadcast Interval:** 1s.

**Broadcast interval:** 100ms to 10000ms. (step of 100ms) –optional “Longer Broadcast Interval FW, up to 6hours.

**Support Operating System:** iOS7.0 and Android 4.2+ or third part devices

**Scan Response:** Yes (max 31Byte Length), containing Battery level, Device name (11Byte), Sensors value

**FCC and CE Certification**



## **CUSTOMIZATION OPTIONS**

**Housing Printing** : Logo printing or serial number laser engraving

**Label on surface**: Label can be customized according to customer's request

**Setting / Encoding**: Beacons services values can be pre-set as per customer's requirement (from xls file)

**Available sensors**: Accelerometer.

## **VERSIONS AVAILABLE**

**It's also available wristband accessory.**

## **APPLICATION NOTE**

### **CONTACT TRACING**

Retail Marketing

Indoor Asset Tracking

Indoor Positioning

Smart Guide for museums and theme parks

Pick-to-light

Maintenance

Worker Safety

## **PRODUCT CODE AND ORDER INFORMATION**

**GT-DKBY\_CTF-BLE**: Beacony with full contact tracing and social distancing functions

For any clarification, please do not hesitate to contact us at any time:

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