

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



Global Tag **BRACELET FOR SOCIAL DISTANCING BEACON BLE with Vibration, 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 and led. It has been developed to meet all the functions requests due to pandemic Covid19.

- Bracelet plastic housing
- **ON/OFF button** with additional functions (**reset, alarm**)
- USB rechargeable Battery
- G-Sensor for man-down application
- Up to **50m** detection distance
- **iBeacon** and **Eddystone** (UID, URL, TLM) compliant
- **Body Temperature (optional)**
- **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
  - 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.**
- **ADDED A WHITELIST TO NO HAVE ALARM WITH FAMILY PEOPLE.**

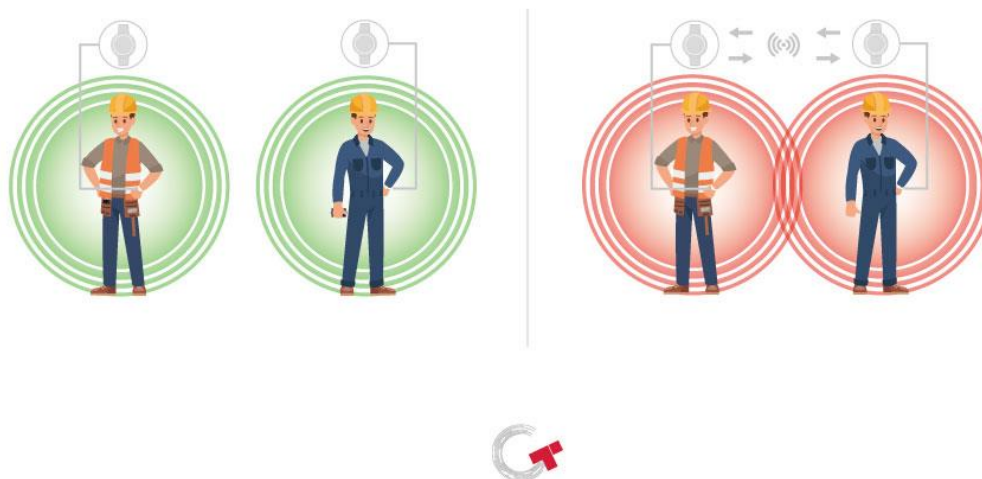


Fig.1 – How the beacon works. If the beacon listens another beacon nearby, it activates the alarms (vibration, buzzer and led). It also store the listened Mac Address in its memory and sends a special advertising packet.

## MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

**Dimensions:** 280mm lenght

**Thickness:** 8mm

**Weight:** 55gr (including battery)

**Material:** PC (Polycarbonate) and soft plastic rubber

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

**Class Protection:** IP67

**Battery type:** rechargeable battery 90mAh

**Battery life:** 6month (with Broadcast Interval: 1 second and Tx Power: 0dB). **IF THE GATEWAY FUNCTION IS ON, battery life is about 10days, but it can reach up to 20/30days, 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

Temperature sensor: for body checking

## 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, body temperature.

## **APPLICATION NOTE**

**CONTACT TRACING**

**SOCIAL DISTANCING**

Indoor Asset Tracking

Indoor Positioning

Worker Safety

Healthcare

## **PRODUCT CODE AND ORDER INFORMATION**

**GT-BBY\_CTF-BLE:** Beacons 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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