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 QR code) 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 vibe
  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 / Ø1,53 in diameter
Thickness: 15mm / 0.59 in
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 30 days, but it can reach up to 60/90 days, 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 200 meters
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 6 hours.
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

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