

# H6 Light Sensor Beacon

## Product Brief



Designed with ultrasonic welding structure, and integrated with light sensor as well as 3-axis accelerometer sensor, H6 Light Sensor Beacon can be available for the scenarios of anti-dismantling alarm, asset tracking, proximity promotion and ambient light monitoring.

### Ambient light sensor extended beacon application scenarios

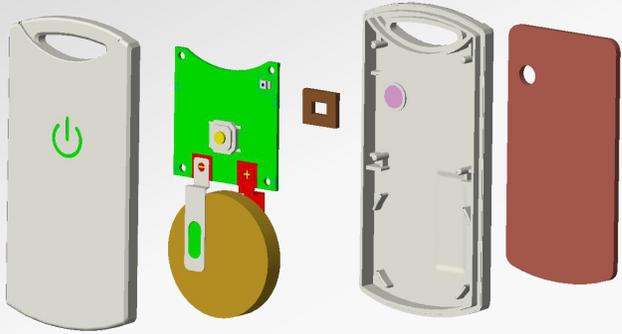
- Integrated with ambient light sensor to realize anti-dismantling alarm or power saving mode.
- Emergency button to notify emergency situations, task completion, or other predefined events in time.

### Marketing promotion

- ✓ Ambient light monitoring.
- ✓ Multiple advertising protocol provided and customized format supported.
- ✓ Ultrasonic welding design with IP65 waterproof.
- ✓ 3-axis accelerometer sensor available for motion detection.
- ✓ Mechanical button for SOS shortcut trigger.

### All-round service to save your time and costs to market quickly

- Certified for USA (FCC), Europe (CE) including REACH and RoHS environmental regulation
- All other worldwide certifications can be customized
- Branding, Logo, Label, Packaging, Manufacture parameters, strap, even hardware and firmware are all customizable



## General Features

|                       |  |
|-----------------------|--|
| Main Chip             | Nordic nRF52810  |
| Bluetooth             | Bluetooth 4.2 (hardware compatible with bluetooth 5)             |
| Range                 | Up to 150 meters (in the open area and no obstacles)             |
| Dimension             | 51.0mm x 24.5mm x 5.5mm  |
| Antenna Type          | PCB Onboard  |
| Material              | ABS  |
| Waterproof            | IP65   |
| Color                 | Black  |
| Installation          | Sticker, lanyard, Neckchain                                      |
| Button                | Mechanical button  |
| LED                   | Single RED LED   |
| Sensor                | 3-axis accelerometer sensor (optional)                           |
| Operating temperature | -20°C / + 60°C   |
| Storage temperature   | -20°C / + 70°C (without battery)<br>10°C / + 25°C (with battery) |
| Humidity              | 0% ~ 95% (non-condensing)  |

## Functions

|                                |   |
|--------------------------------|---|
| Advertising format             | Apple iBeacon<br>Google Eddystone (UID, URL, TLM)<br>MOKO BeaconX Pro sensor data ( with 3-axis G-sensor)   |
| Multi-advertising              | Support up to 6 active slots (Beacon can broadcasts different advertising packets separately)   |
| Configurable list              | Advertising format and data/ Beacon name<br>Tx Power/ Advertising interval<br>Connection password/ Trigger options/ Sensor parameters             |
| Ambient light monitoring       | Monitoring ambient light to apply to Beacon anti-dismantling alarm or power saving mode.  |
| Sensor sampling                | Broadcast or notify the 3-axis G-sensor data in real time (with 3-axis G-sensor)  |
| SOS emergency (Button trigger) | Two or three times to click the button to change the advertising status and data for emergency help   |
| Firmware update                | Nordic DFU OTA/ J-link  |
| Configuration APP              | iOS and Android are available<br>Scanning the advertising data and connecting to configure all parameters<br>Open APP SDK for customer to develop |



## Power

|                 |  |
|-----------------|--|
| Power supply    | CR2032 Lithium Coin Cell Battery<br>220mAh |
| Average current | 20uA (Default settings*)                   |
| Lifetime        | 12 months (Default settings*)              |

*Default settings - 1 active slot, 1000ms ADV interval, 0 dBm Tx power and without 3-axis sensor.*

## Service and Customization

|                           |  |
|---------------------------|--|
| Certification             | USA (FCC), Europe (CE-RED, CE-LVD, CE-EMC, REACH, RoHS )<br>Other certifications can be customized |
| Manufacture customization | MP Pre-configuration parameters<br>Packaging/ Laser logo/ Label/ Sensor                            |
| Development               | Custom firmware development<br>Customer firmware programing<br>Custom hardware design and layout   |



# Contact Us

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