The battery-powered zone anchor for localization of assets equiped with Bluetooth tag trackers in a dedicated zone.

- Installed at a fixed location
- Scans Bluetooth Low Energy tag trackers

- NB-IoT
- Europe and North America

- IP68 & IP69K
- Flame retardant
- Battery powered

72 mm

36 mm

130 mm

ZA 3505

Connectivity

NB-IoT
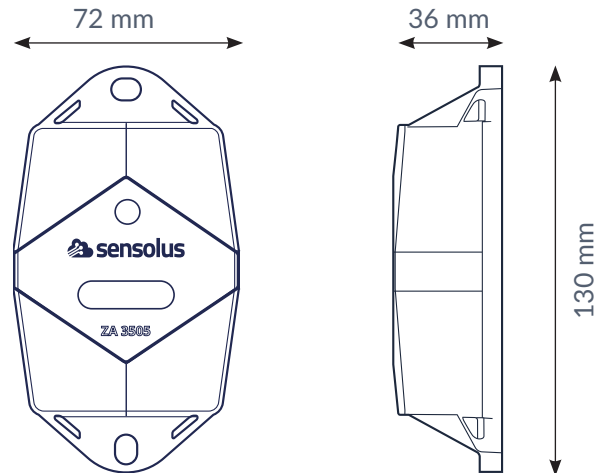- Energy efficient transceiver
- Internal omnidirectional antenna
- Bi-directional communication
- NB-IoT bands: EU and North America
- OTA firmware upgrade (NB-IoT)

Bluetooth Low Energy (BLE)
- BLE 2.4 GHz
- Bluetooth Low Energy 5.0
- OTA firmware upgrade (BLE)

Mounting

- Holes for screws or rivets
- Cable ties

Mechanics & design

Antenna
All antennas are internal

Size
130x 72 x 36 mm

Weight
200 gram

Color
Translucent black

Water & dust resistance
IP68 & IP69K

Operating temperature
-20 to 60°C

Storage temperature
-40 to 60°C

Casing
- Polycarbonate (lexan 943A)
- Flame retardant
- UV-stabilized

Batteries

Battery lifetime
· Scan every 6 hours: 7 years
· Scan every 3 hours: 5 years
· Scan every 1 hour: 2,5 years
· Scan every 30 minutes: 1,5 year

Battery characteristics
· User replaceable battery pack (Li-SoCl$_2$) 8400 mAh 3.6V
· 2,7 gram Lithium

Certifications

Regulatory
CE and FCC

Bluetooth 5.0
Declaration ID: D048003

Electrical safety
EN-60905-1

User interaction

Device activation
Magnetic activation

LED feedback
Green & red LED feedback on the device

Synchronize remote settings
· Instant: Magnet activation
· Periodic: No user interaction needed

Management services

Diagnostics
· Battery lifetime prediction
· Detailed energy consumption
· Installation
· Communication quality

Management
· OTA firmware updates over NB-IoT and BLE
· Remote configuration
· Zone anchor localization with Sensolus smartphone app

Application services

· Bluetooth tag tracker scanning
· Act as managed geobeacon

Tag tracker scanning

· Compatible with all Sensolus supported Bluetooth tag trackers
· Maximum 100 Bluetooth tag trackers in range per scan

Firmware configuration

Bluetooth tag tracker scanning
· Scan and send interval
· Bluetooth tag tracker's RSSI scan treshold
· Filter scanned Bluetooth tag trackers on UUID

Managed geobeacon
Enabled or disabled

Security

· Device unique encryption keys
· End to end payload encryption Chacha 20

· AES encrypted firmware
· Firmware upgrade allows only signed firmware images