

The small low-power tracker with long battery life. Indoor and outdoor localization, zone and high precision. Compatible with multiple external environmental sensors.

-  GNSS
-  Wi-Fi scanning
-  Bluetooth geobeacon for zone precision
-  NB-IoT
-  Europe
-  Data recovery
-  IP68
-  Flame retardant



105×54×21.5 mm
95g (7.6 oz)

Connectivity

NB-IoT

- Energy efficient transceiver
- Internal omnidirectional antenna
- Bi-directional communication
- NB-IoT bands: Europe
- Data recovery
- OTA firmware upgrade (NB-IoT)

Geolocalization

GNSS

- Multi GNSS constellation chipset (GPS+GALILEO)
- Patch antenna for optimum performance

Wi-Fi scanning

- Wi-Fi based geolocalization
- Wi-Fi 2.4 GHz

Sensing

Internal

- Activity monitoring
- Orientation monitoring
- Virtual tamper detection

Bluetooth Low Energy (BLE)

- BLE 2.4 Ghz
- Bluetooth Low Energy 5.0

BLE

- Sensolus proximity beacon detection
- Detectable by zone and high precision anchors

Environmental BLE sensors

- Temperature, humidity
- Fill level, contact, magnet
- Other BLE sensors can be added

Activation and mounting

Activation

Mounting

- Activation and mounting
- Activation manual
- Holes 6x8 mm. 90 mm distance between the centers of the mounting holes.
- Instructions for mounting the device are available [here](#).

Mechanics & Design

Antennas

All antennas are internal

Size

105x54x21.5 mm (LWH)

Color

Translucent black

Water & dust resistance

IP68

Weight

95 gram

Operating temperature

-20°C to 60°C*

The specifics regarding operational temperature are contingent upon the application, installation circumstances, and environmental factors such as sunlight exposure. For further information, please reach out to Sensolus. Battery life can be affected when devices function for extended periods at the extremes of this range.

Casing

- Polycarbonate (Ilexan943A)
- Flame retardant
- UV-stabilized

Battery

- 3 to 8 years battery life depending on operating mode
- Non replaceable battery pack 5200 mAh 3.0 V(Li-MnO₂)

Certifications

Regulatory

CE

Electrical safety

EN-60905-1

Bluetooth 5.0

Declaration ID D068598

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
- Geolocation diagnostics
- Installation
- Communication quality

Application services

- Localization
- Journeys
- Activity
- Utilization
- Connectable with environmental sensors
- Tilt detection

Firmware configuration

Communication service

- Data recovery strategy
- Communication conditions

General configuration

- Rule engine configuration
- Diagnostic levels
- Boot methods
- Accurate time synchronization

Environmental sensing

- Polling and aggregation strategy
- Alerts
- Edge processing parameters

Tamper service

Virtual tamper algo configuration

Security

Encryption

- Device unique encryption keys
- End to end payload encryption Chacha 20
- AES encrypted firmware
- Firmware upgrade allows only signed firmware images

Management

- OTA firmware updates over NB-IoT and BLE
- Remote configuration
- Tracker usage profiles
- External environmental sensors

Location service

- Motion based, context based, periodic or scheduled
- Configurable update rate and journey detection
- Priority sequence (GNSS, Wi-Fi scanning , Bluetooth geobeacon)
- GNSS fix parameters
- Indoor detection algo
- Wi-Fi scan strategy
- BLE scan strategy

Orientation service

Orientation detection parameters

Activity service

Activity detection parameters