

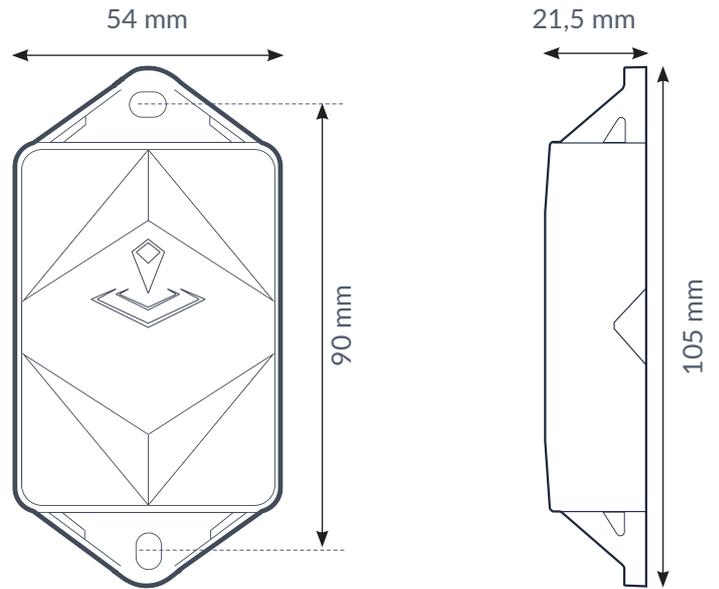
The small low-power tracker with long battery life.
Indoor and outdoor localization, zone and high precision.
Compatible with multiple external environmental sensors.

- GNSS
- Wi-Fi scanning
- Bluetooth geobeacon for zone precision

- NB-IoT
- Europe
- Data recovery (patented)

- IP68
- Flame retardant

Up to 8 years of battery life ([read the details](#))



Connectivity

NB-IoT

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

Bluetooth Low Energy (BLE)

- BLE 2.4 GHz
- Bluetooth Low Energy 5.0

Connectivity plan

- TRACK 1110 comes with the [Standard connectivity plan](#).

Geolocation

GNSS

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

Wi-Fi

Wi-Fi based geolocation

BLE

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

Sensing

Internal

- Activity monitoring
- Orientation monitoring
- Virtual tamper detection

Environmental BLE sensors

- Temperature, humidity, air quality
- Person presence, contact, magnet
- Other BLE sensors can be added

Mounting

- [Activation manual](#)
- Instructions for mounting the device are available in the [Sensolus documentation center](#).

Mechanics & design

Antennas

All antennas are internal

Size

105x54x21,5 mm (L W H)

Weight

95 gram

Color

Translucent black

Casing

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

Water & dust resistance

IP68

Operating temperature

-20 to 60°C

Storage temperature

-40 to 60°C

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 62368-1

Bluetooth 5.0

Declaration ID: D048003

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

Management

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

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

Orientation service

Orientation detection parameters

Activity service

Activity detection parameters

Location service

- Motion based, context based, periodic or scheduled
- Configurable update rate and journey detection
- Priority sequence (GNSS, Wi-Fi scanning , Bluetooth geo-beacon)
- GNSS fix parameters
- Quoppa tested for high precision
- Indoor detection algo
- Wi-Fi scan strategy
- BLE scan strategy

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