

The rugged low-power tracker can be wired to an external power source. It has NB-IoT connectivity and guaranteed data recovery. The tracker provides general localization, zone and high precision. The tracker comes with an onboard temperature sensor and shock detection. Compatible with multiple external environmental sensors. The tracker firmware can be upgraded over the air.

- **M** GNSS
- Wi-Fi scanning
- NB-IoT
- S Europe and North America
- Data recovery
- Up to 12 years of back up battery
- IP rating in progress
- **†** IK07
- Flame retardant



Connectivity

NB-IoT

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

Bluetooth Low Energy (BLE)

· Bluetooth Low Energy 5.0

Geolocalization

GNSS

Multi GNSS constellation chipset (GPS+GALILEO)

BLE

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

Wi-Fi scanning

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

Sensing

Internal

- Activity monitoring
- · Orientation monitoring
- · Virtual tamper detection
- Temperature monitoring (range: -20°C till 60°C, typical accuracy: +/- 0,25°C, worst case accuracy: +/- 1°C)
- · Configurable shock detection

Connectable environmental BLE sensors

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

Mounting

- Holes 7x9mm ($^{9}/_{32}$ * $^{23}/_{64}$ in) for screws or rivets. 115 mm ($4^{17}/_{32}$ in) distance between the centers of the mounting holes.
- · Instructions for mounting the device are available in the Sensolus documentation center.

Mechanics & design

Antennas

All antennas are internal

Size

 $130x72x36 \text{ mm} (5^{1}/_{8} \times 2^{53}/_{64} \times 1^{27}/_{64} \text{ in })(LWH)$

Weight

218,3 gram (7.68 oz) without cable

Color

White and black

Casing

- · PBT/PC 29 TM-Z2 FR UV LS
- · Flame retardant
- · UV-stabilized

Water & dust resistance

IP 67

Impact resistance

IK07

Drop shock and vibration

EN 60068

Operating temperature

-20°C to 60°C (-4°F to 140°F) *

Battery life can be affected when devices function for extended periods at the extremes of this range.

Power supply

Voltage

Input voltage: 10 - 30 V DC with overvoltage protection

Typical power consumption

~3mA (idle)

Max typical power consumption

- 300mA (@10V)
- 70mA (@30V)

Fuse recommendations

- > 500mA and < 1A fuse
- The TRACK1210 has an internal fuse at the external power input
 - The fuse is rated at 1A (slow blow type)
 - This fuse is NOT resettable
 - Fuse used in the device: Bel fuse 0685T1000

Cable terminations

Connectors to the power source can be soldered to the cable ends

Back up battery

Standard 3 cell

- · Battery life depending on operating mode.
- · User replaceable battery pack (Li-SoCl₂) 12000 mAh
- · 2.94 gram (0.1037oz) lithium

Certifications

Regulatory

- · CE
- · FCC
- · IC

Environmental

Drop shock

User interaction

Device activation

Magnetic activation

Synchronize remote settings

- · Instant: Magnet activation
- · Periodic: No user interaction needed

Bluetooth 5.0

D068598

Electrical safety

EN 62368-1

LED feedback

Green & red LED feedback on the device

Management services

Diagnostics

- · Back up 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
- Activity

Journeys

· Utilization

- Connectable with environmental sensors
- · Tilt detection
- · Shock detection
- · Temparture detection