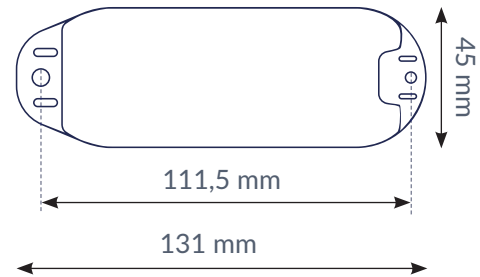This sensor uses radar technology to measure the distance to objects or surfaces. This distance measurement can be used to quantify the fill level of a container. Alternatively, the sensor can be used to detect if a carrier is loaded (object detected by radar) or unloaded.

- Battery powered
- IP67
- Distance sensor (radar technology)
- Temperature sensor

45 mm

111,5 mm

131 mm

Bluetooth connectivity

- BLE 5 connectivity
- BLE advertisements every 3 seconds with configurable TX power up to +8dBm

Sensor details

Distance detection
- range: 20 cm to 7 m
- Highly configurable to detect different types of material

Periodic measurements
The sensor performs periodic measurements at a configurable interval (default 60 minutes)

Temperature range
-20°C to 65°C (tolerance: 1,5°C)

Lid open/close detection
The sensor can optionally be configured to pause measurements when it detects an orientation change. This avoids incorrect fill level measurements when attached to a lid which is occasionally opened.

Mounting

- Screws and double sided tape for recessed applications
- Mount the sensor close to the tracker (max 10 meters)

Mechanics & design

Size
⌀ 133 x 45 x 21 mm.

Weight
90 gram

Operating temperature
-20°C to +85°C

Casing
PBT/PC UV Stable.

Battery

- TITUS ER14335 Not rechargeable HIGH ENERGY battery.
- The battery is not replaceable
- With default settings the battery has a 5 year lifetime

- ⅔ AA-size 3.6V 1.65Ah
- Primary Lithium Thionyl chloride (SOCl2)

Management services

- Use case specific profiles upon request
- Configurable with Sensolus smartphone app for testing purposes