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Sense Condition (laser range finder version)

The Sense Condition (laser range finder version) harnesses the power and versatility of LoRaWAN and combines it with a robust and accurate laser range finder to create a highly effective 'state change' alerting IoT device. The device is easily configurable to communicate at different intervals depending on the use case and is very energy efficient on the powerful battery, ensuring a long life.

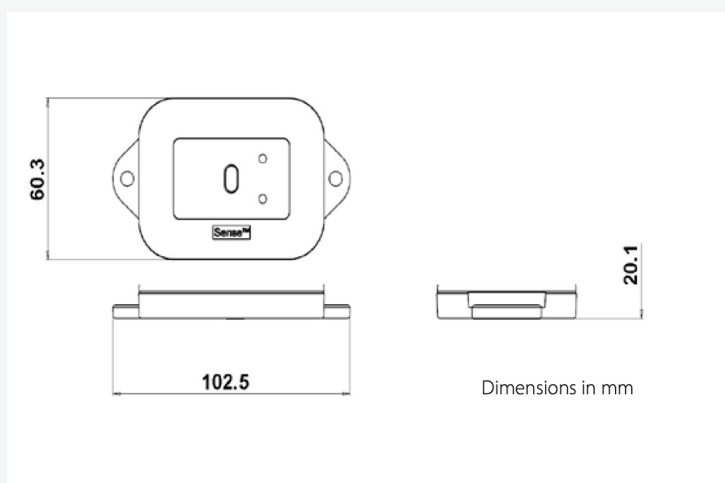
The device is designed to work in conjunction with local LoRa networks and has been deployed and tested with MultiTech Gateways. It is a class A end node with two different configurable beaconing schemes allowing the user to set the product to alarm on distance change (Temperature and Accelerometer sensors can be added as an optional extra).

Applications

The Sense Condition (laser range finder version) is designed for state change alerting for a variety of different applications such as:

- Facilities management
- Consumable replenishment
- Space/asset utilisation
- Container management
- Ports construction & mining
- Worker accountability
- Yard management
- Production line material flow
- Room utilisation
- Bin/tank fill level monitoring
- Field operations
- Asset management
- Fleet monitoring

Dimensions



Physical Specifications

Material	2-part durable PC/ABS case
Size	102.5 x 60.3 x 20.1 mm 3.03 x 2.37 x 0.79 in
Weight (g)	80
Attachment	Mechanical (std)

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Configurable Parameters

Default Beacon Rate (In Hours) Sensor Period (in minutes)

Environmental Specifications

Operating Temperature -20°C to +60°C

Shock & Vibration Tolerance MIL-STD-810 F

Certifications

CE, FCC, RoHS, Bin, NFC, LoRa



Operational Specifications

Radio Protocol NFC, LoRaWAN

Supported Profiles 868 MHz - Europe, 915 MHz - USA

Battery Type Sealed prismatic battery, non-replacable

Battery Capacity 3.85 Ah

Battery Life 5 years+ at 15 minute range reading intervals

Default Beacon Rate 1-254 hours

Sensor Period Configurable from 0-254 minutes (where 0 is off)

Sensors Laser Range Finder

Optional Sensors Accelerometer

Laser Range 1-200cm

Laser Tolerance +/- 2cm

Visual Indicator LED

Related System Components

LoRa Technology Evaluation Kit Including LoRa devices, user guide and MultiTech reader

Ordering Information

Warranty 1 year

Part Number / Order Codes / Order Numbers CP13773 (EU version)
CP14156 (USA version)

For product or technology inquiries email: sales@omni-id.com.
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