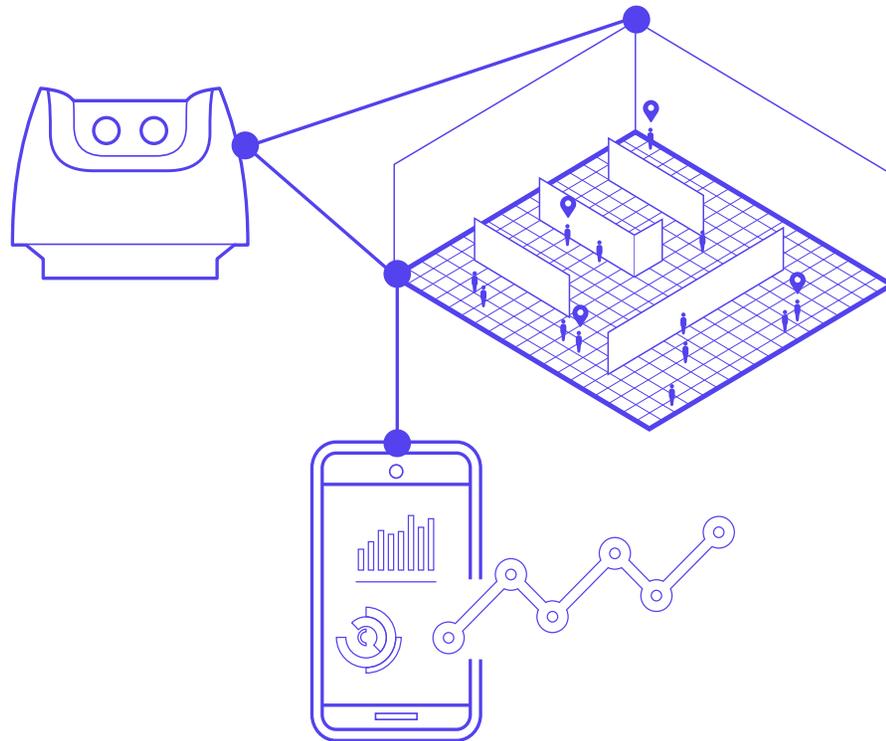


# INNERSPACE SENSORS: SMART INDOOR LOCATION SOLUTIONS

The InnerSpace platform uses three indoor location sensors to collect data to drive different types of Smart Solutions for operational change.



These sensors capture the data our platform needs to provide critical metrics and insights that can be used to inform and validate operational decisions, and drive employee and customer experiences.

These sensors provide data that is used to present:

- + Maps
- + Positioning and Location
- + Number of people
- + Time on Site
- + Queue Times
- + Frequency
- + Asset tracking
- + And more

## Benefits of InnerSpace Sensors

- + Powered by Power-over-Ethernet (PoE) technology, eliminating the need for electrical contractors and ongoing battery replacement
- + Managed in the cloud, sensors are automatically updated and do not require ongoing maintenance
- + Cellular and/or standalone network connectivity for data backhaul means the platform does not impact existing IT infrastructure
- + GDPR compliant, InnerSpace anonymizes data and does not store personally identifiable information
- + Sensors feed data to InnerSpace analytics and other digital solutions in the cloud so that users can access their data from any connected device
- + Open API to support new solutions

### Whitelist:

- |  |                 |                              |
|--|-----------------|------------------------------|
| The following ports and domains must be available for connections on all of our sensors: | + innerspace.io | + *.balena-cloud.com         |
|  | + innrspc.com   | + *.docker.com               |
|  | + resin.io      | + *.docker.io                |
|  | + balena.io     | + google.com (for time sync) |

### Certifications

InnerSpace sensors meet TUV certification for the following Canada, USA, Europe and Australia standards:

- + FCC Part 15, Subpart B, Class A
- + ICE003
- + CISPR 24
- + CISPR 32

### Confirm Network Security Requirements:

The following ports must be available for outbound connections:

- + 80 (tcp/http)
- + 443 (tcp/https)
- + 53 (udp/dns)



## MAPPING SENSOR

The InnerSpace mapping sensor is the most comprehensive indoor location sensor available on the market today. This sensor combines a variety of technologies including LiDAR, WiFi, Bluetooth, and Ultra Wideband to automatically create and maintain floor plans, locate smart devices, and track asset tags.

### Features & Benefits

- + **Turnkey solution:** Plug in and go, no configuration required. The InnerSpace Sensor begins working as soon as it's powered. Connects with the other sensors in the building to provide coverage of the entire space.
- + **Instant mapping:** On demand scanning delivers floor plans that can be updated as indoor spaces are reconfigured.
- + **Real-time tracking:** Monitor people and assets in real-time using electromagnetic signals from smartphones, computers, or asset tags.
- + **Install anywhere:** Drop mount, and t-bar installation options makes it easy to install in virtually any indoor environment. Sensors are typically spaced 50-70-feet apart.
- + **Low power draw and easy connection:** The InnerSpace Sensor uses existing PoE or PoE + ethernet supplying a minimum of 15W.
- + **Mix and match:** The mapping sensor can be used in conjunction with other InnerSpace sensors. This sensor does not need to be placed in every room, nor positioned at choke points like entryways.
- + **Offline capabilities:** Continues to count people even when offline with onboard storage.



## LOCATION SENSOR

The InnerSpace location sensor has all of the great features of our mapping sensor, without the LiDAR used to automatically generate floor plans. Most commonly used in conjunction with the mapping sensor, the location sensor improves coverage across an indoor space.

### Features & Benefits

- + **Real-time tracking:** Monitor location of people and assets in real-time using electromagnetic signals from smartphones, computers, or asset tags.
- + **Improve coverage:** Use in conjunction with the InnerSpace mapping sensor to increase fidelity of location data.
- + **Install anywhere:** Drop mount, and t-bar installation options makes it easy to install in virtually any indoor environment. Sensors are typically spaced 50-70-feet apart.
- + **Low power draw and easy connection:** The InnerSpace Sensor uses existing PoE or PoE + ethernet supplying a minimum of 15W.
- + **Offline capabilities:** Continues to count people even when offline with onboard storage.



## OCCUPANCY SENSOR

This occupancy sensor, supports specific use cases where highly accurate people counting is required. This sensor detects bodies within a tightly confined space and is independent of smartphone detection. Ideal for choke points, lineups, and doorways, this sensor is used to count people and measure queue times. This sensor can be used in conjunction with InnerSpace mapping and location sensors.

### Features & Benefits

- + **Highly Accurate Headcount:** Ideal for choke points, lineups, and doorways this sensor counts people moving through its field of view.
- + **Real-time measurement:** Provides the number of people passing through a space and measures the time people spend in lines.
- + **Zero configuration:** Plug in and go. Once installed, data is instantly fed to the InnerSpace platform.
- + **Offline capabilities:** Continues to count people even when offline with onboard storage.