DIMENSION4

UWB AngleID Sensor

OVERVIEW

The Ubisense DIMENSION4 AngleID® sensor detects tags entering and exiting up to eight, precisely defined zones in real-time. Using ultra-wideband (UWB) active tags, it determines the angle between the tag and the reader to maintain a track on the tag and report when it crosses user-defined thresholds.

SIMPLE SET UP

AngleID is designed to be installed and set up in less than 10 minutes. Simply mount the AngleID sensor and connect to a Windows® device to configure up to eight different zones per reader with a point-and-click interface. The sensor can then reliably detect the entry and exit of Dimension4 UWB tags in those zones up to 45m (150ft) away, even in highly metallic environments. The entry and exit events can then be integrated into an automation system or MES using either the OpenProtocol or .NET API communications interface.

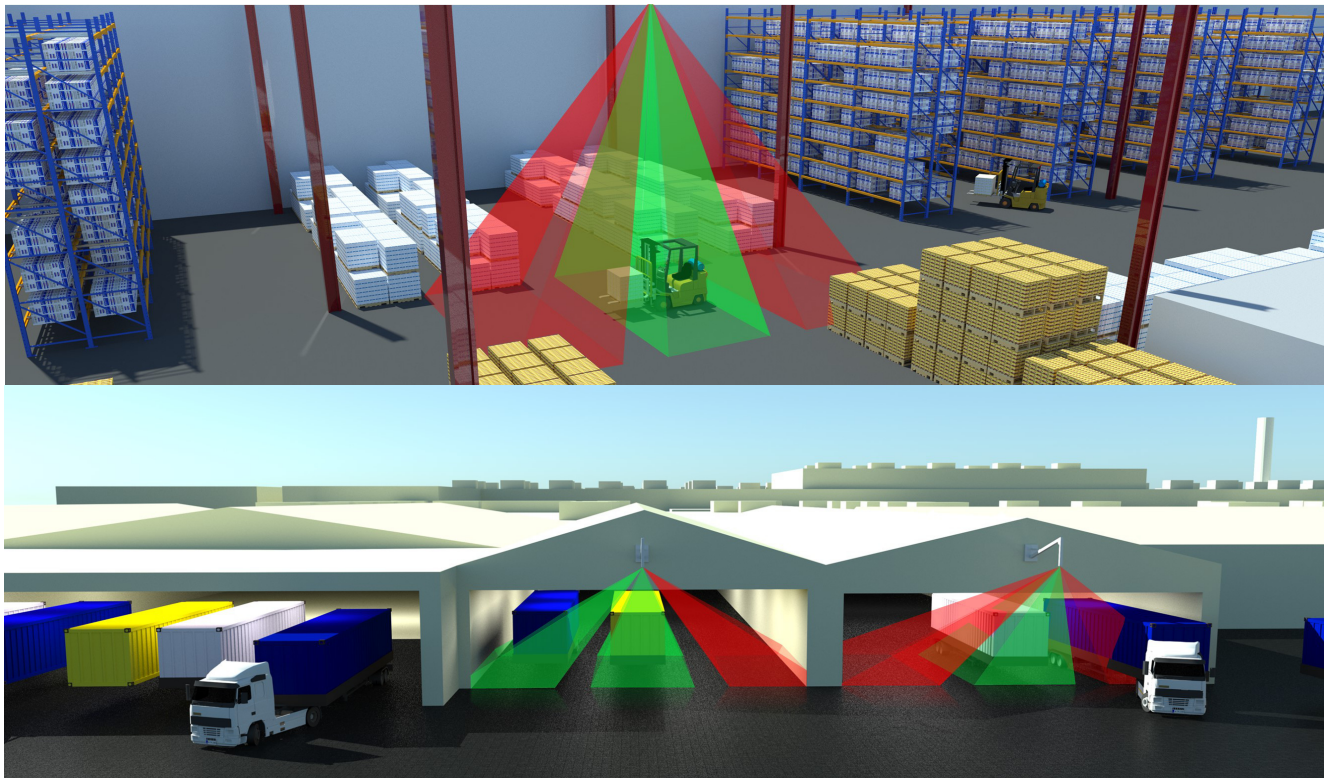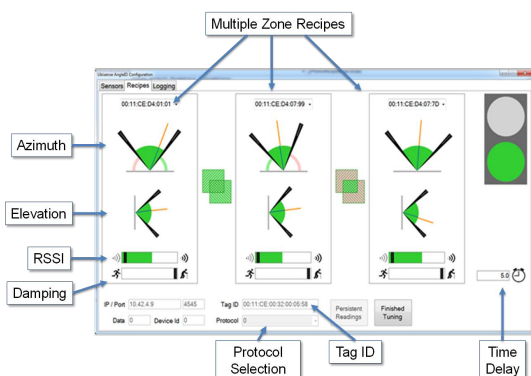| Specifications |
| --- |
| **Dimensions & Weight:**
IP30: 22cm x 15cm x 6cm (8.7" x 5.9" x 2.4"), 720g (25.4 oz)
IP54: 22cm x 15cm x 10cm (8.7" x 5.9" x 3.9"), 864g (30.5 oz)
IP69K: 22cm x 15cm x 9cm (8.7" x 5.9" x 3.5"), 1014g (35.8 oz) |
| **Field of View:**
+/-80° in azimuth, +/-40° in elevation |
| **Range:**
45m (150 feet) |
| **Temperature:**
-40°C to 65°C (-40°F to 149°F) |
| **Humidity:**
0 to 95%, non-condensing |
| **Enclosure:**
ABS/PC (V0), UV Stabilized
Tested to protection level IP30 / IP54 / IP69K |
| **Connectors:**
RJ45, Power-over-Ethernet IEEE 802.3af-compatible |
| **Communications protocols:**
OpenProtocol, .NET API |
| **Power Usage:**
Budget 15.4W per unit at the switch |
| **Radio frequencies:**
Ultra-wideband channel: 6-7GHz |
| **Certifications:**
US: FCC Part 15
Canada: ISED
EU: CE
UK: UKCA |
| **Mounting options:**
Adjustable mounting bracket (supplied)
Safety Cable (supplied) |
| **Ubisense part codes:**
ANGLEIDSENSOR (IP30 sensor)
D4IP54UPGRADE (IP54 upgrade)
D4IP69KUPGRADE-S (IP69K upgrade, single port)
D4IP69KUPGRADE (IP69K upgrade, three port) |

PRECISE ZONE DEFINITION

A point-and-click user interface allows rapid configuration of each zone:

- Azimuth and elevation of a zone
- Strength of signal (RSSI) filter
- Reading dampening factor
- Select communication protocol
- Set timeout duration
- Coordinate multi-sensor installations
- Set up data logging

MANY USE CASES

Ubisense AngleID has many benefits for a wide variety of industries, such as manufacturing, logistics, and transit, including:

Wireless Tool Tether
Determine if a handheld tool is being used in the correct workstation or zone

Work Stage Verification
Check that a particular work step has been completed or measure how long a product has been in station

Traffic Light or Secure Barrier Activation
Determine when a vehicle has approached a traffic light zone or controlled barrier

Direction of Movement
Measure the direction of travel of a forklift or AGV through a doorway or checkpoint

Tool and Worker Verification
Record which tools and workers were working on a specific product

Dock Door Presence
Track vehicles present at multiple dock doors with a single reader

Ubisense

To find out more, contact us on:

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