

S-SERIES: OCCUPANCY SENSOR



The Sonicu occupancy sensor is designed to monitor occupancy and utilization in virtually any workspace and boasts up to 98 percent recognition based on its AI-powered smart sensing.

The occupancy sensor transmitting data via Sonicu's LoRaWAN®-based communicating system, SoniLink.

Leverage the ability to detect the presence or absence of people or movement in a space and trigger actions or adjustments accordingly. Ideal for facility managers seeking improved data to drive energy efficiency measures, cost savings around utilization as well as safety and security.



Features

- Sensors seamlessly transmit to SoniLink Hubs, creating a comprehensive monitoring network – connect hundreds of sensors to a single hub
- Our LoRaWAN®-based technology, SoniLink, ensures secure and reliable wireless connectivity. Experience real-time monitoring with range and efficiency
- Instantly compatible with cloud-based SoniCloud monitoring hosted on AWS
- Flexible alerting options via phone call, text, email and push notification
- Large area coverage by connecting hundreds of sensors with a single hub
- 98% recognition rate based on advanced AI identification and analysis
- Wide installation height and detection range with two versions for various scenarios
- Smart U-turn counting to filter redundant counting of people wandering around the area

Specifications

People Counting & Monitoring

| | |
|-----------------------------|--|
| Field of View | Standard Version: 190 ° Horizontal, 112 ° Vertical High Ceiling Mount Version: 129.4 ° Horizontal, 68.4 ° Vertical |
| Full Monitored Area | Standard Version: 78m ² (R = 5m, H = 3m) High Ceiling Mount Version:126m ² (L=18m, W=7m, H= 7m) |
| Installation Height | Standard Version: 2.5m to 4m High Ceiling Mount Version: 5m to 7m |
| Detection Rate ¹ | Region Counting: Up to 95% |

LoRaWAN® Transmission

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|----------|-------------------------|
| Protocol | LoRaWAN®-based SoniLink |
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Physical Characteristics

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|-----------------------|---|
| Power Supply | 5VDC / 1.5A by Type-C Port |
| Power Consumption | 3.5W |
| Operating Temperature | -5°C ~ +55°C |
| Storage Temperature | -20°C ~ +60°C |
| Relative Humidity | 0 ~ 95% (Non-condensing) |
| Dimension | 85 × 85 × 20 mm (3.35 × 3.35 × 0.79 in) |
| Installation | Ceiling Mounting |

Approvals

| | |
|------------|---------------|
| Regulatory | CE, FCC, RoHS |
|------------|---------------|

Installation Height

To better utilize the advantage of AI algorithm, it's recommended to follow the below installation heights:

| OBJECT | HEIGHT | NOTE |
|----------------|----------------|--|
| Sitting object | >2.5 m (8.2ft) | Commonly used for region people counting |

It's recommended to refer to below detection ranges² for people counting at different heights for accurate recognition:

| Installation Height (m) | Detection Range (m ²) |
|-------------------------|-----------------------------------|
| 2.5 | 3.0 × 4.0 |
| 3.0 | 4.4 × 5.7 |
| 3.5 | 4.9 × 6.4 |
| 4.0 | 5.6 × 7.4 |

¹Tested under the recommended detection range.

²The actual detection range may vary based on the height of the target individual.