# WISE OCS

**Occupancy/moisture/temperature sensor - Occupancy Sensor**



## QUICK FACTS

○ WISE OCS is a combined occupancy, humidity and temperature sensor with integrated radio transmitter

○ The unit has a PIR sensor to detect occupancy and sensors to measure air humidity and temperature

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# Technical description

## Design

WISE OCS is a combined occupancy, humidity and temperature sensor with integrated radio transmitter, designed for use in Swegon's indoor climate system WISE. The unit has a PIR sensor to detect occupancy and sensors to measure air humidity and temperature. The unit communicates wirelessly and is powered by 24V AC/DC.

## Materials and surface treatment

• Front-piece: PC, white NCS S1002-Y.

• Back-piece: PP, grey NCS S5500-N.

## Installation

Ideally WISE OCS is mounted between 1.2 to 1.8 above the floor, close to a door or middle of the wall, see figure 1. If only occupancy is to be detected, the product can be placed above the door, see figure 1.  The product can also be placed on the ceiling, see figure 3. When the product is mounted on the ceiling, the temperature is measured at ceiling level (if this function is used).

The sensor should not be exposed to sunlight or draught.

## Commissioning

Use TuneWISE for commissioning. Commissioning must be performed by qualified and trained WISE service engineers.

## Maintenance

If necessary, use a dry cloth when cleaning. Never use water, detergent, cleaning solvent or a vacuum cleaner.

## Environment

The Building Materials Declaration is available from www.swegon.com.

# Technical data

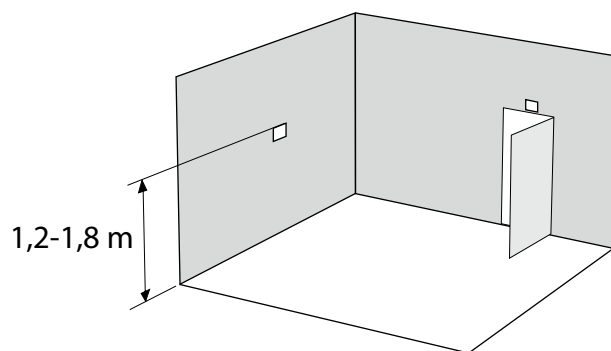| | |
|---|---|
| Power supply: | 24 V AC ±10% 50-60 Hz, 15-30 V DC |
| Max. power consumption: | 1 VA |
| Cable rating, connector: | Max. 1.5 mm $^2$, push-in spring force connection |
| Frequency band: | 2.45 GHz IMS band (2400-2483 MHz) |
| Output (ERP): | 50 mW |
| Range of measurement | |
| Occupancy: | ±60° (120°), distance up to 8 m |
| Temperature: | 0 – 50°C ± 0.5°C |
| RH: | 20 – 80% ±3% 0 – 100% ±5% |
| IP class: | IP20 |
| Ambient temperature | |
| Operation: | 0 – + 55°C |
| Storage: | -40 – +80°C |
| RH: | 10 – 95% (non-condensing) |


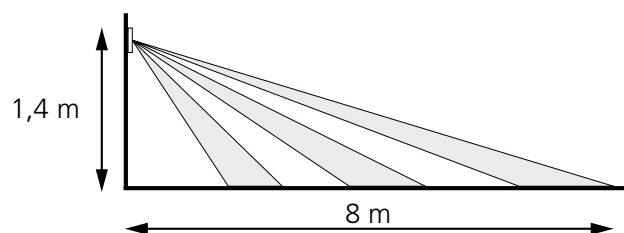
*Figure 1. Placement of WISE OCS on the wall.*



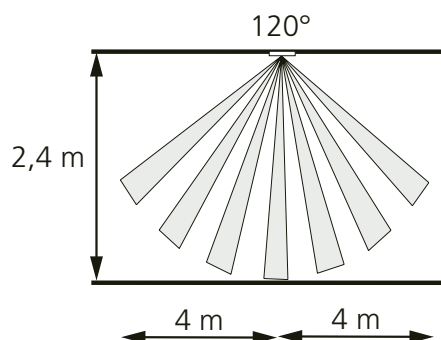*Figure 2. Detection range, wall mounted.*
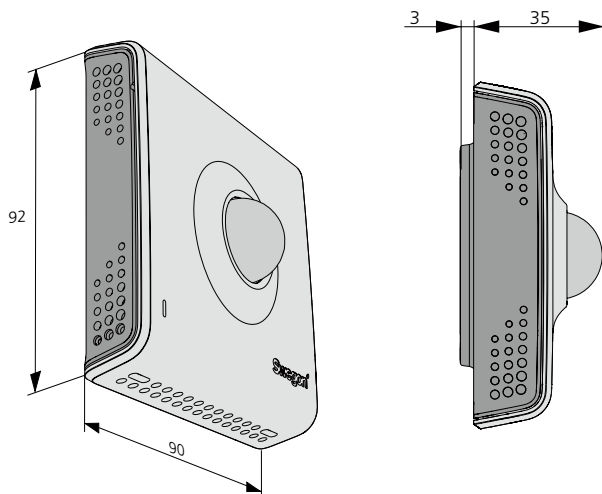


*Figure 3. Detection range, ceiling mounted.*

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# Dimensions and weights



*Figure 4. Dimensions, WISE OCS.*

| Weight (kg) |
| --- |
| 0.095 |

# Ordering key

**Product**

| Occupancy/moisture/temperature sensor | WISE OCS | b |
| --- | --- | --- |
| Version: | | |

# Specification text

Example of a specification text according to VVS AMA.

**UBA.23** Sensor with combined functions

Swegon's presence sensor of the type WISE OCS with the following functions:

- Built-in communication unit for communication in Swegon WISE radio network.
- Designed for wall mounting, height from the floor between 1.2-1.8 m.
- The sensor indicates occupancy within that given in the specification, also contains a sensor for temperature and relative humidity.

Specification:

| | |
| --- | --- |
| Power supply: | 24 V AC |
| Range of measurement, occupancy: | ±60° (120°), distance up to 8 m |
| Range of measurement, temperature: | 0 – 50°C ± 0.5°C |
| Range of measurement, RH: | 20 – 80% ±3% 0 – 100% ±5% |
| IP class: | IP20 |

| Type: | WISE OCS b | xx items |
| --- | --- | --- |