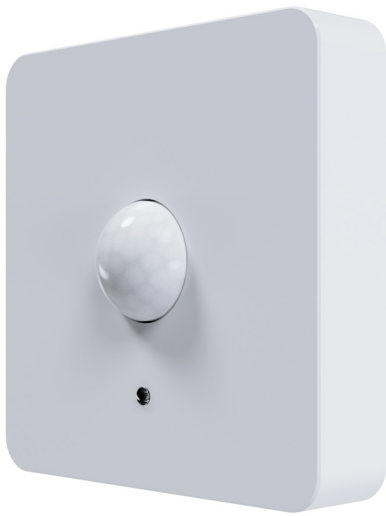


# Presence Sensor

## User Manual



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# 1. Presence Sensor Features

Cascoda's KNX IoT Presence Sensor provides presence and movement sensing.

- Detects the movement of people, even when there is little movement.
- Includes a brightness sensor (in lux).
- Mixed light measurement (daylight and artificial light).
- Battery powered, install anywhere!

There are 2 variants:

- Low profile ceiling installation, 360 degrees detection.
- Low profile wall installation, 170 degrees detection.

Measures the following environmental variables:

- Presence: passive or pyroelectric infrared (PIR) sensors are thermal detectors and suitable as motion sensors. They react to a change in infrared heat radiation in the environment. It can reliably detect small temperature difference between the background (e.g. floor / wall) and the target object (human).
- Luminance

This sensor is the perfect choice for environments where the smallest of movements need to be detected, e.g. in offices, waiting rooms, wellness rooms, sanitary areas, and many more. The sensor can reliably detect people walking from a distance of up to 6 meters, which is typical for reception rooms or warehouses, to name just a few.

Other features:

- Wireless Thread, sleepy end device, using the Chili2S with industry-leading receive sensitivity.
- Battery charge status indicator for any chemistry.
- Configurable with ETS6.3 or later.

Specification:

- Wall or panel mount options
- Dimensions 78 x 78 x 26 mm
- Battery-powered (3 AA)
- 5-year battery life on Alkaline (LR6)
- 6-year battery life on Lithium (FR6)

## 1.1. Security



This KNX device support the latest KNX IoT standard. This extension of the KNX enables fully encrypted transmission of data telegrams, thus ensuring secure data- and access-proof communication between KNX devices within a single installation. The KNX-specific Engineering Tool Software (ETS) secures both the runtime communication over IP as well as commissioning. This device certificate key, imprinted as a QR code for fast identification, allows the ETS to authenticate the device and perform the Secure commissioning.

## 2. General information

### 2.1. Document Version information

This manual is amended periodically and will be brought into line with new software releases. The change status (date) can be found in the contents header. If you have a device with a later software version, please check [www.cascoda.com](http://www.cascoda.com) to find out whether a more up-to date version of the manual is available.

#### 2.1.1. Used Terms

Sign	Description
<b>DANGER!</b>	Indicates an immediately hazardous situation which will lead to death or severe injuries if it is not avoided.
<b>CAUTION!</b>	Indicates a potentially hazardous situation which may lead to trivial or minor injuries if it is not avoided.
<b>WARNING!</b>	Indicates a situation which may lead to damage to property if it is not avoided.
<b>NOTE!</b>	Indicates a situation which may lead to possible (known) side effects.

**Table 1:** Used Terms

### 2.2. Safety instructions

**CAUTION!** Risk of explosion if an incorrect battery is installed. Use consumer grade, non-rechargeable alkaline, zinc-carbon or lithium batteries.

**CAUTION!** Store, transport and dispose of the batteries in compliance with local requirements.

**CAUTION!** The product is only suitable for mounting at heights of less or equal than 2 meters.

### 2.3. Issues

Questions about the product?

You can reach the technical service of Cascoda under Tel. +44 (0)2380 638 111 or [support@cascoda.com](mailto:support@cascoda.com).

We need the following information to process your service request:

- Type of appliance (model name or item number)
- Description of the problem
- Serial number or software version

- Source of supply (dealer/installer who bought the device from Cascoda )

For questions about KNX functions:

- Version of the device application
- ETS version used for the project

## **2.4. Contact information**

info@cascoda.com

Threefield House,

Threefield Lane,

Southampton,

SO14 3LP, UK

### 3. Replacing batteries

The batteries should be replaced with the same type as inserted at install time. When other types are used, then the *Battery Type* in **Settings** must be changed accordingly.

**NOTE!** When the batteries are replaced, please dispose of the used batteries in a responsible way.

The battery compartment is at the back side of the device. See image:



*Fig 1: Battery Cover*

After replacing the batteries, the device will automatically resume measuring the environment.