Lighting Control - CASAMBI

Detectors with wireless communication



IR detector

IR detector ceiling



Acoustic detector

CASAMBI



Unique detection technology that, together with radio protocol and mesh network, controls lighting!

The detectors communicate with the fixtures via the CASAMBI radio system. All settings are made via the Casambi app where you can, for example, create different light levels for different times of the day. With Casambi, you can save miles of cabling and get a system that can be easily changed in the future, e.g., splitting an existing space into two. This can be done without the need to install new cabling.



IR detectors





IR detector PD43 CASAMBI

Detection: **PIR**

Detection range: 40 x 40 meters

Operating voltage: 12-24VDC, 12VAC, DALI

Power consumption: 22mA

Relay output: Normally closed contact. 100 mA / 24V AC/DC

Article no: 13223 | E-number: 13 016 21

IR ceiling detector PDC43 CASAMBI

Detection: PIR

Detection range: 360°, 8.7 meters at a height of 3 meters Operating voltage: 12-24VDC, 12VAC, DALI Power consumption: 22mA Relay output: Normally closed contact. 100 mA / 24V AC/DC Article no: 13222 | E-number: 13 017 22

Applications

PD43/PDC43 are passive infrared detectors designed for presence detection and control of DALI and Casambi fixtures. As long as a detector is connected to the DALI bus, it can control DALI fixtures. The control of Casambi fixtures is done wirelessly via radio protocol in a mesh network.

Mesh technology where all Casambi products function as both signal amplifiers and information distributors. This means that the system is robust and allows the system to continue functioning even if a unit fails.



Detection area for PD43 with lens no. 15

Office spaces

In office spaces with various types of rooms and corridors, the choice of detectors is adapted depending on the layout of the rooms. In offices and conference rooms, the ceiling detector PDC43 works well and in corridors, it is better to choose the corner-mounted detector PD43.



Corridor

In corridors up to 40 meters long, the standard lens no. 15 can be used. For longer corridors, lens no. 47 can be used, and then the PD detector can reach up to 80 meters.

Warehouse aisles

Lens no. 17 can detect up to 50 meters long warehouse aisles. The mounting height can be up to 25 meters.



Garage

With Casambi detectors, it is easy to divide a garage into different zones in the Casambi app.



To adapt the PD detector to the respective space, the lens can be changed. The PD detectors are delivered with standard lens no. 15. There are several different lenses available for the detector to optimize detection.

Please contact Extronic for any questions.

Acoustic Detector AD46 CASAMBI



Acoustic Detector AD46 CASAMBI

Detection: **Sound** Detection range: **50 m in diameter** Operating voltage: **12-24VDC, 12VAC, DALI** Power consumption: **28mA** Article no: 13220 | E-number: 13 016 20

Features of AD46 CASAMBI

- Detection range: maximum reach 50 m in diameter depending on the space and furnishings.
- Detects door opening through pressure change (LF sound).
- Detects audible sounds (HF sound), such as speech, footsteps, key jangling, etc.
- Automatic activation via detector or manual activation via push button.
- Adjustable sensitivity.
- HF-block: only activates lighting through low-frequency sound.
- HF sound: subsequently helps to keep the lighting on.

Detection Range

Reach up to 50 m in diameter depending on the space and furnishings.



Stairwells

Stairwells are often an enclosed space accessed through a number of doors. This makes acoustic technology advantageous, the only technology that provides illumination at the same time as the door opens. One to two acoustic detectors are normally sufficient to cover a stairwell with five floors, depending on the space and furnishings.



Basement Corridor, Attic Storage

In enclosed basement and attic spaces, acoustic technology is unmatched, the only technology that provides illumination at the same time as the door to the space opens.

Presence detection also occurs into open storage areas and through grille doors.

Shower / Changing Rooms

Changing rooms are an excellent example of a space where acoustic technology is superior. The acoustic detector detects presence behind clothes and around lockers which an IR detector would have missed. The same detector can detect presence in both changing rooms and shower rooms.



AD46 as a Supplementary Detector

Acoustic detectors are used as supplementary detectors in combination with IR detection in, for example, corridors where one or more entrances are hidden from the IR detector.

AD46 detects the low frequencies that occur when a hidden door opens and turns on the lighting. Solely acoustic detection does not always work satisfactorily, for example, due to wallto-wall carpets that dampen the higher frequencies.





Connection Examples





We also sell these accessories



Input Controller 4CH Casambi Art. no: 13270



24V Power Supply 130mA Lunatone Art. no: 20488



Powersupply DALI PS1250 DL Art. no: 18510



Powersupply DALI PS1251 DL Art. no: 18514

Universal Mounts

- BR1: Adjustable 30° vertically, 45° horizontally.
- BR2: When the detector needs to be tilted forward/backward for corner mounting, adjustable 30° vertically, 45° horizontally.
- BR3: For ceiling mounting, adjustable 30° vertically, 45° horizontally.

Protection Grilles for PD Detectors

For mounting detectors on walls or in corners in exposed environments e.g., gymnastics and sports halls. There are three types of stainless steel protection grilles.

The grilles are intended for PD detectors but also fit other detectors.





BR1

BR2

BR3 Art. No: 13085 Art. No: 13086 Art. No: 13087



SGV1 Art. No: 13036







SGV2

SGV3 Art. No: 13037 Art. No: 13038

SGH1 Art. No: 13039







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