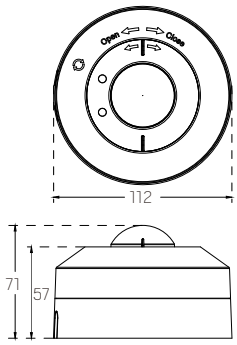
Sensor Casambi PIR Surface

hidealite

(mm)



E-nr	Snro	El.nr	GTIN	Name
13 021 07	26 061 09	14 037 13	7392971152912	Sensor Casambi PIR Surface

CE · IP20 · 0°C +50°C · 230V · PIR sensor · DALI 2 · DT6

For explanation of symbols see www.hidealite.se

Product Description

The ceiling mounted sensor combines presence sensing, daylight harvesting, DALI diming, relay and Casambi wireless technology. The sensor work with DALI LED drivers or luminaires.
The result is increased occupant comfort and significant energy savings that meet the most demanding building energy codes. The sensor is suitable for high-bay and low-bay applications which need sensor-based automation.

SAFETY INSTRUCTIONS

en Read these instructions carefully before commencing installation and retain for future reference. All connections to the driver must only be made by a qualified electrician or a person with the necessary expertise in electrical installation in accordance with the relevant rules and standards. Make sure that the power is off before installation or maintenance.

sv Läs dessa instruktioner före installationen påbörjas och lämna den vidare till brukaren av anläggningen. All anslutning till drivdonet får endast utföras av behörig elektriker eller person med nödig kännedom om elektrisk installation i enlighet med gällande regler och standard.Se till att spänningen är frånslagen före installation eller underhåll.

fi Lue nämä ohjeet ennen asentamista ja luovuta ohjeet valaisimen seuraavalle käyttäjälle. Kytkennät ohjaimeen saa tehdä ainoastaan pätevä sähköasentaja tai sähköasennukset hallitseva henkilö voimassa olevien määräysten ja standardien mukaisesti. Varmista, että jännite on kytketty päältä ennen asennusta ja huoltoa.

no Les disse instruksjonene før du starter installeringen, og gi den deretter videre til anleggets bruker. All tilkobling til omformeren skal utføres av godkjent elektriker eller person med nødvendig kunnskap om elektrisk installasjon i henhold til gjeldende forskrifter og standard. Sørg for at strømmen er koblet fra før installering og ved vedlikehold.

da Læs disse anvisninger før du starter installationen og aflever vejledningen til anlæggets bruger. Alle tilslutninger på konverteren skal udføres af en autoriseret elinstallatør i overensstemmelse med gældende regler og standarder. Afbryd spænding før installation og vedligeholdelse.

de Lesen Sie diese Anweisungen sorgfältig, bevor Sie mit der Installation beginnen, und bewahren Sie sie für späteres Nachschlagen auf. Sämtliche Anschlüsse am Treiber dürfen nur von einem qualifizierten Elektriker oder einer Person mit der notwendigen Fachkenntnis im Bereich Elektroinstallationen und in Übereinstimmung mit den geltenden Richtlinien und Normen vorgenommen werden. Stellen Sie vor Installations- oder Wartungsarbeiten sicher, dass keine Spannung mehr anliegt.

pl Przed przystąpieniem do instalacji należy się uważnie zapoznać z instrukcją i zachować ją na przyszłość. Wszystkie połączenia prowadzące do sterownika muszą zostać wykonane przez wykwalifikowanego elektryka bądź osobę posiadającą niezbędną wiedzę specjalistyczną w zakresie instalacji elektrycznych zgodnie z obowiązującymi przepisami i normami. Przed instalacją lub konserwacją wyłączyć zasilanie.

fr Lisez attentivement ces consignes avant de commencer l'installation. Pensez également à vous y reporter ultérieurement. Tous les raccordements au moteur doivent uniquement être effectués par un électricien qualifié ou par un individu qui dispose de l'expertise requise en matière d'installation électrique, conformément aux normes et aux règles pertinentes. Veillez à couper le courant avant l'installation et toute opération de maintenance.

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

- Installera INTE med ström ansluten till enheten.
- Utsätt INTE enheten för fukt.

CASAMBI

Casambi Technology Explained

The Casambi technology provides a mesh network where all the intelligence of the system is replicated in every node and, in such a way, creates a system with no single point of failure. In this kind of fully distributed architecture, any unit can go offline and catch up from others when they return back online.

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Mechanical Data

Dimension	Φ112*71mm
Material	Flame-retarant/ABS
Protection Class	Class II

Safety & EMC

EMC standard (EMC)	EN55015, EN61000, EN61547
Saftey standard (LVD)	EN60669-1, EN60669-2-1, AS/NZS60669-1/-2-1
RED	EN300328, EN301489-1/-17
Certification	ENEC, CE, RED, UL

Wireless Communication

Transceiver Frequency	2.4GHz ISM band
Radio Certification	FCC/IC, CE

Casambi Wireless Mesh System

DALI Broadcast	80mA
Relay 120V-277VAC	Resistive: Max. 10A, Capacitive: Max. 8A, Inductive: Max. 7A

Sensing

Detection Range	High-bay: max. Ø 26m @12m height Low-bay: max.Ø6m @3m height
Installation Height	High-bay: min-max 6-12m, recommended: 12m Low-bay: min-max 2-6m, recommended: 3m

Connectors

Terminal block/wire size	0.5mm²-1.5mm² solid or stranded 2.5mm² single hardwire with inside quick connector
Wire strip length	10mm

Environment

Operating temperature range	Ta:-10°C to +50°C
IP rating	IP 20

Lighting Control

Features	Casambi wireless mesh with DALI broadcast, daylight harvesting individual/group adressing realy, scheduler control, autonomous sensor-based control

Note!
Different materials affect Casambi Mesh signals in various ways:

- **Metal**: Blocks or weakens signals significantly.
- **Concrete, Brick**: Reduce signal range.
- **Wood, Glass, Plastic**: Minimal impact.

Proper placement is vital for strong signals, avoiding obstructions like metal and dense walls to ensure reliable connectivity. Care to check signal levels.

For optimal performance, we recommend maintaining an approximate distance of 20 meters between Casambi devices under good conditions. This helps ensure strong and reliable connectivity.

Key Features

- PIR motion detection
- Daylight harvesting
- Works with DALI drivers or luminaires, broadcast control
- Autonomous sensor-based control
- Can be use for indoor applications
- Casambi Wireless Mesh
- Relay function

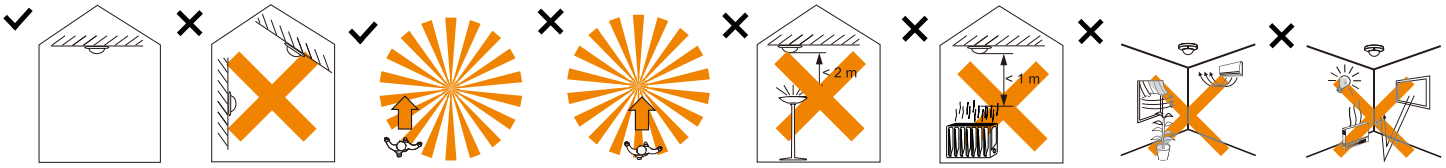
Applications

- Open offices
- Individual offices
- Conference rooms
- Classrooms
- Retail stores
- Hospitals
- Lobbies

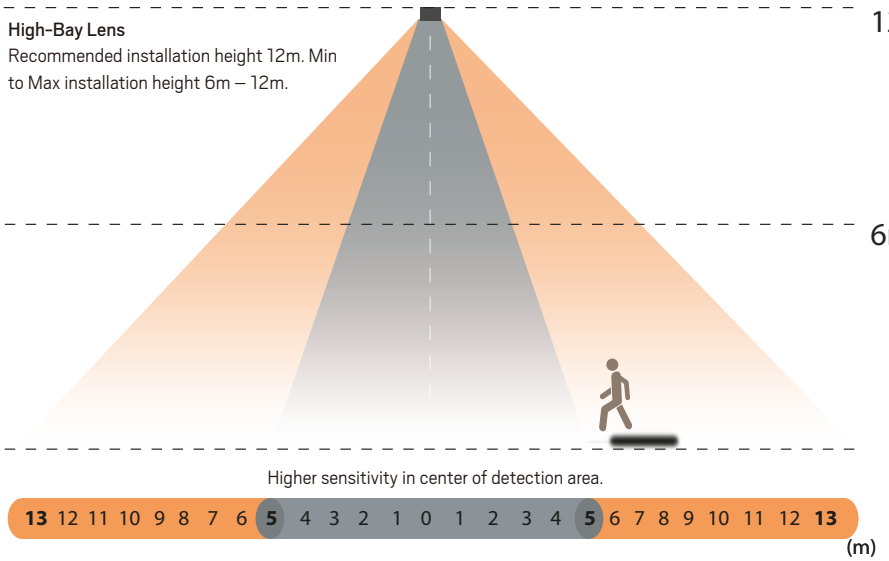
Benefits

- Cost-effective solution for energy savings
- Energy code compliance
- Robust mesh network

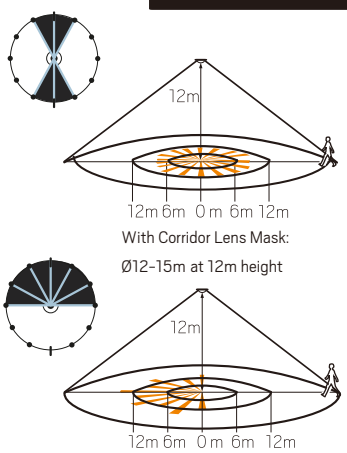
Place/Detection Instruction



High Bay - Detection Pattern



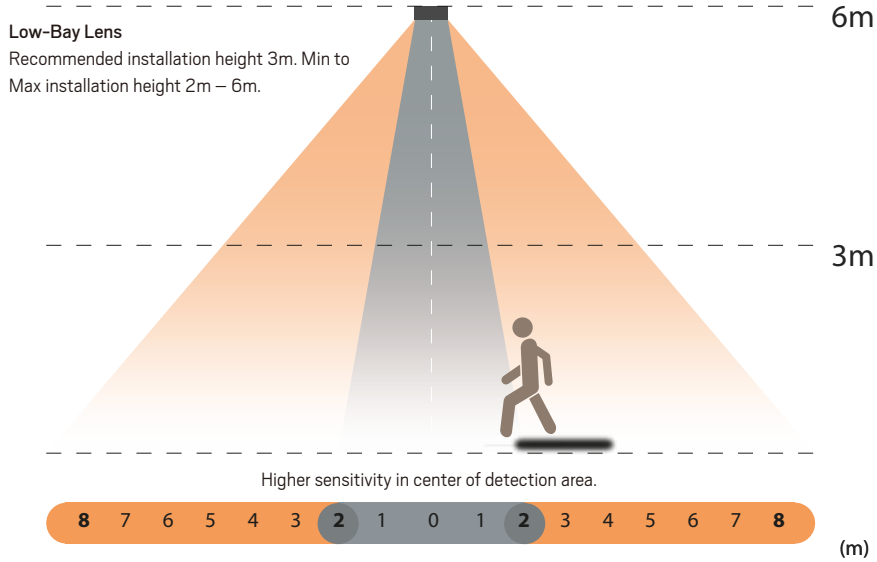
Note!
High-Bay lens pre-mounted

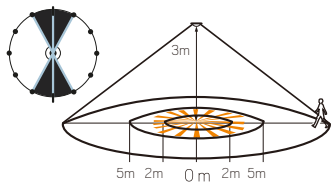


With Corridor Lens Mask:
Ø12-15m at 12m height

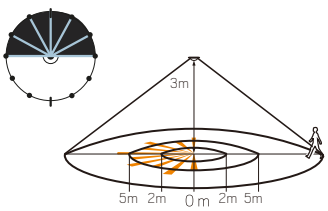
With Semi-Circular Mask:
Half-detection pattern

Low Bay - Detection Pattern





With Corridor Lens Mask:
Ø6-8m at 3m height



With Semi-Circular Mask:
Half-detection pattern

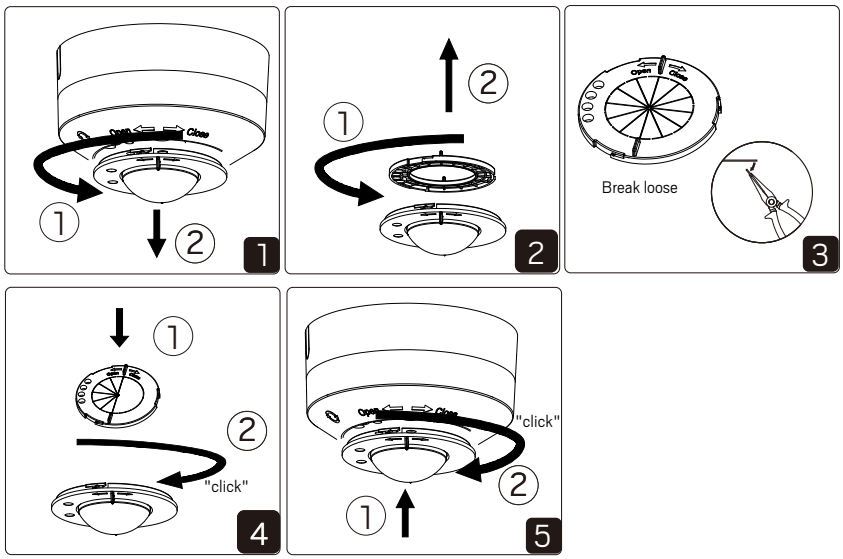
Before Installation

NOTICE: Ensure you read the following guidelines thoroughly before using.

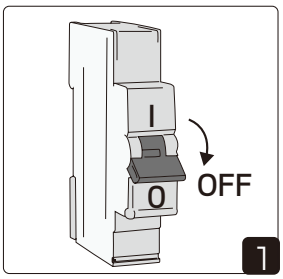
1. **Height and Distance Requirements**
Mounting height shall not exceed 12m. Maintain a distance of over 2m from wireless devices (e.g., routers, switches) to avoid interference.
2. **Avoid Heat Sources**
Place the fixture away from air conditioners, refrigerators, stoves, and areas with strong airflow or heat.
3. **Optimal Temperature**
The sensor performs best below 25ºC. Sensitivity decreases in hotter environments, especially near body temperature.
4. **Motion Direction**
Side-to-side movement is detected better than movement directly toward the sensor.

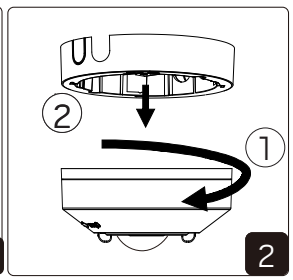
5. **Clear Line of Sight**
Position the sensor where people move most, ensuring nothing like glass, fabric, or objects block its view, as these can obstruct infrared signals.
6. **Stable Installation**
Install the Fixture on a solid, stable surface. Avoid mounting it in a way that causes movement or shaking, which can lead to false alarms.
7. **Adjust Sensitivity**
Set the detection sensitivity appropriately for the actual usage scenario to prevent false triggers or excessive detection leading to energy waste.

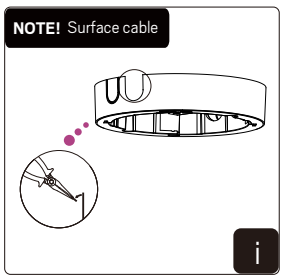
Adjusting detection mask

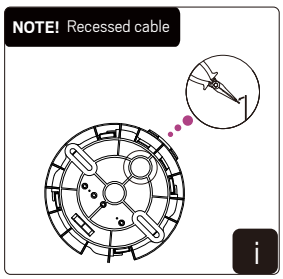


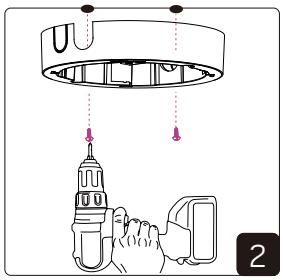
Installation



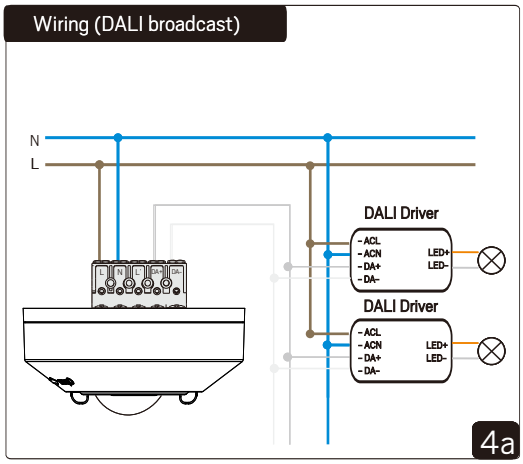






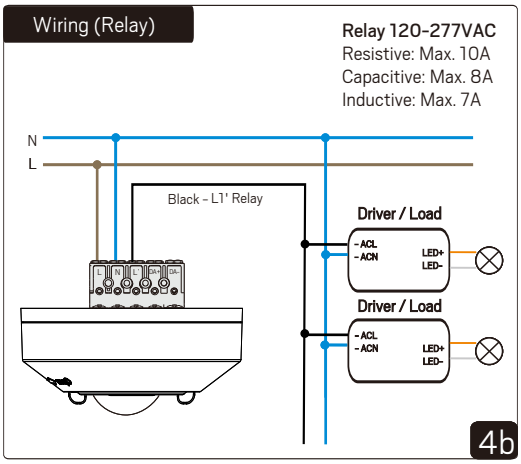


Wiring (DALI broadcast)

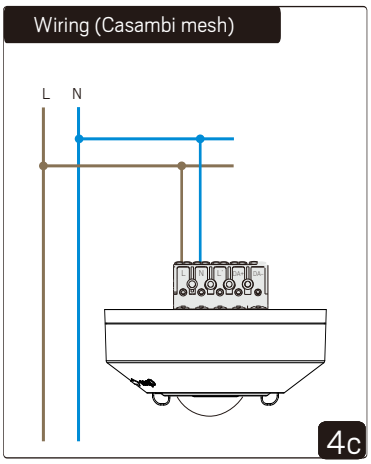


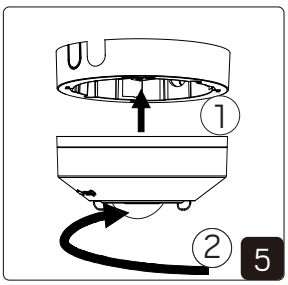
Wiring (Relay)

Relay 120-277VAC
Resistive: Max. 10A
Capacitive: Max. 8A
Inductive: Max. 7A

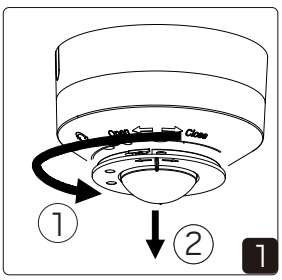


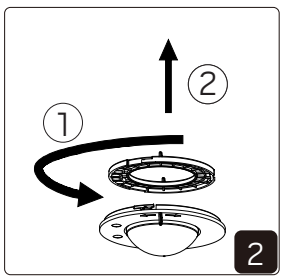
Wiring (Casambi mesh)

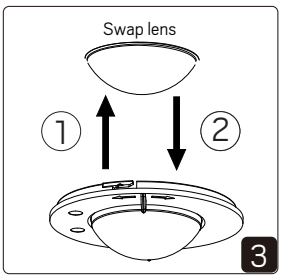


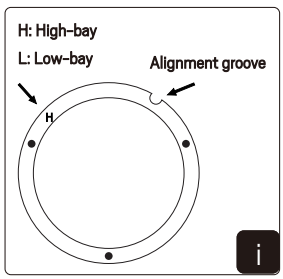


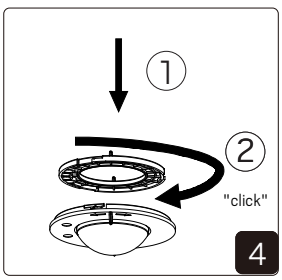
Replace lens

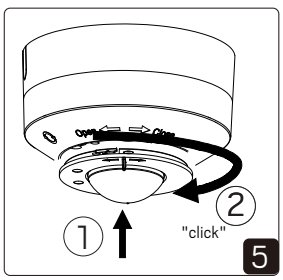












Recycling