Signify

Dynalite

Networked Sensors

Intelligent sensors that work together to adapt your lighting control system to occupant behavior and environmental conditions.

Dynalite sensors enable energy efficiency, occupancy comfort and operational flexibility

In urban areas, about half of all energy consumption comes from commercial, institutional and industrial use, and as much as a third of that is used lighting. Heating, ventilation and cooling (HVAC) is another major energy consumer. Sensors can provide the automation required to significantly reduce unnecessary lighting and HVAC use without affecting the occupant's comfort.

Lighting controls with smart networked sensors are the key to creating intelligent, responsive solutions that cut unnecessary energy use while effectively managing light quality to enhance people's lives, wherever they are.

The general rise in mobility and connectivity means that many people now work in far more dynamic environments. However, not every lighting system accounts for this requirement, often lighting entire floors or even buildings instead of just those areas where the light is truly required.

Lights that are left on unnecessarily increase overall energy costs considerably. Switch off the lights, switch on the savings.

Greater savings can be achieved with daylight harvesting taking advantage of sunlight coming in through windows and skylights to dim the lighting. This feature maintains comfortable, even lighting across all areas, regardless of the weather or time of day, while reducing power consumption and costs.

All Dynalite sensors include motion and light level sensing to automatically detect occupancy and control lighting levels. These intelligent devices detect the slightest movement and are quick and easy to install, generating savings with minimum effort. Additionally, these sensors can communicate to the building's HVAC system when rooms are unoccupied, cutting down on unnecessary heating and cooling from third-party systems.

Powerful tasking capabilities allow Dynalite sensors to modify their behavior between business hours and after-hours. Thanks to their network connectivity, they can coordinate multiple lighting groups in other areas when needed, such as lighting a path from an occupied workspace to the nearest exit at night.

This powerful combination of responsiveness and customizable functionality means that users experience safe, comfortable lighting wherever they are, often without ever needing to touch a control panel or interact directly with the system.

> "A networked sensor can turn the lights on in different areas to illuminate a safe pathway at night time."

Networked and **Multifunctional**

All Dynalite sensors are fully networked devices that support multiple functions at the same time. This versatility and capability results in coordinated operation across the entire system, allowing every device on the network to respond to environmental changes and user requirements in real time.

Features of a multifunction sensor

Network Interface

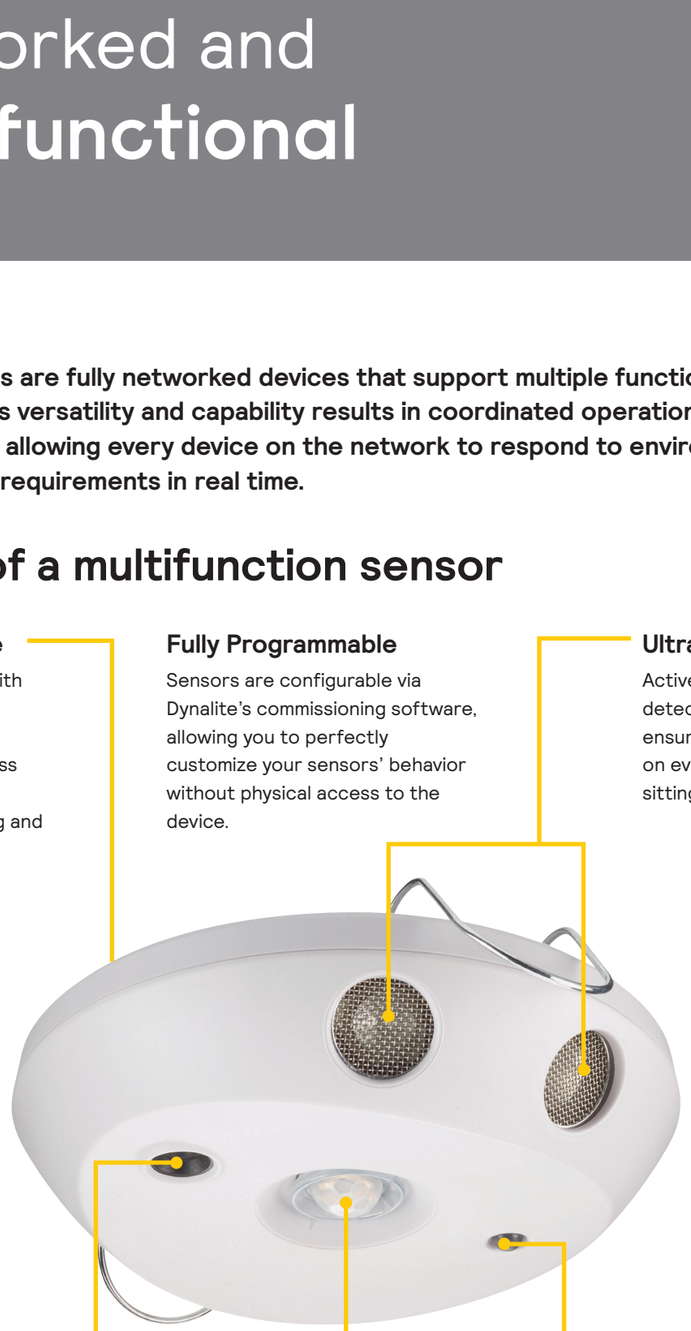
Sensors communicate with each other to indicate occupancy status and average light levels across large areas and report occupancy to monitoring and BMS software.

Fully Programmable

Sensors are configurable via Dynalite's commissioning software, allowing you to perfectly customize your sensors' behavior without physical access to the device.

Ultrasonic

Active occupancy detection over large areas ensures that the lights stay on even when users are sitting still.



Light Level Sensing

The Photoelectric sensor uses precise lux measurement to calibrate lighting levels, ensure user comfort and adhere to daylight management building regulations.

Passive Infrared

The industry standard method of occupancy detection, enhanced by the Dynalite system's connectivity.

Includes pull out PIR masking bezel to stop unwanted PIR triggering.

IR Receive

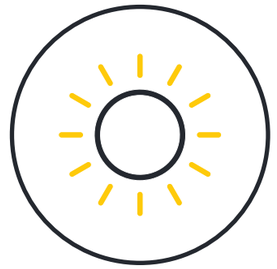
Commission sensors, control lights and trigger programmed tasks from anywhere within sensor range.

Core sensor functions

1. Occupancy detection

Dynalite sensors determine occupancy by sensing motion across the sensor's scan area. The sensor can send control commands based on this data.

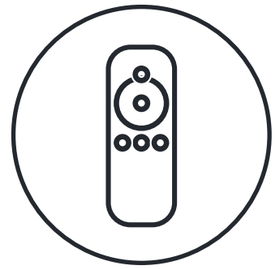
- PIR (Passive infrared) senses the difference in temperatures of moving objects across the scan range. Requires line of site to the occupant.
- Ultrasonic – Actively transmits a high frequency sound wave, then measures changes in the returning echo to sense motion. This method is extremely sensitive and can function around obstacles and corners.



2. Light level (lux)

Local light level detection and regulation ensures comfortable, balanced lighting across any environment. The sensor uses real-time lux measurement to compensate for factors such as reduced brightness from older lamps, daylight coming in through windows and skylights, or other external light sources.

Instead of using a fixed threshold point, Dynalite sensors feature industry-leading granularity in lux measurement, enabling finely tuned responses to changing lighting conditions.



3. IR receive

Dynalite sensors receive RC5 IR commands from any compatible handheld remote, including:

- Network sign-on for device identification during commissioning
- Preset scene selection
- Ramping light levels or temperature setpoint
- Triggering preprogrammed actions, including control of third-party devices connected to the Dynalite system such as motorized blinds and projector screens.

Sensor Technologies

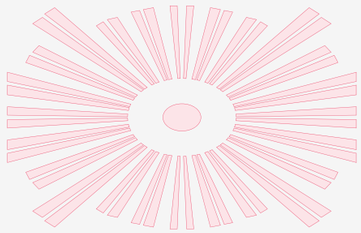
Dynalite uses four powerful sensor technologies to enable programmable operation and optimal functionality.

- **PIR (Passive Infrared)**
- **Ultrasonic**
- **PE (Photoelectric)**
- **IR (Infrared)**

PIR motion sensing

Different scan patterns cover a variety of applications in environments ranging from offices and warehouses to department stores and hotels.

These scan patterns are effective in a variety of settings, but work best when the subject moves perpendicularly across the sensor's detection field.

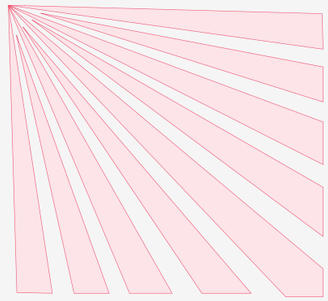


360°

Typically mounted in the celling and away from walls. Ideal for use in large open areas. Good at picking up the motion of people walking through an area, sitting down or standing up.

90°

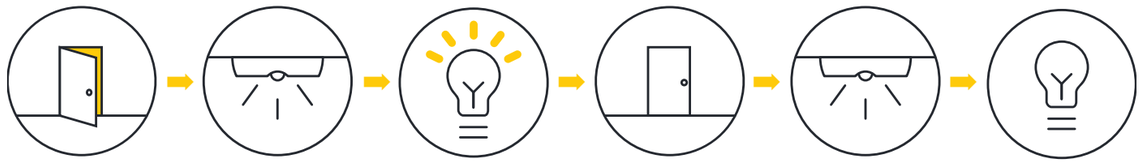
Typically placed on or close to a wall or corner. Ideal for detecting movement through doorways, along aisles, or in small rooms.



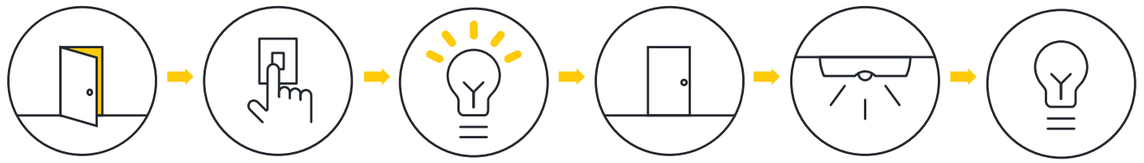
30°

A tightly focused detection beam for long range applications, 30° sensors are ideal for detecting movement through corridors, carparks and warehouses.

Presence Detection (auto-on/auto-off)



Vacancy Detection (manual-on/auto-off)

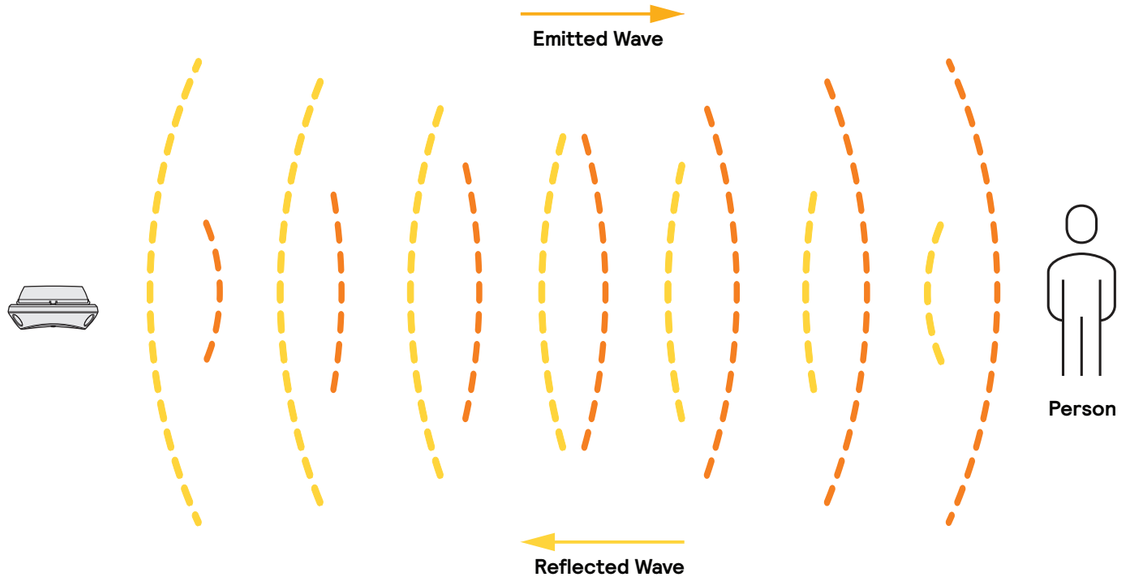


Ultrasonic motion sensing

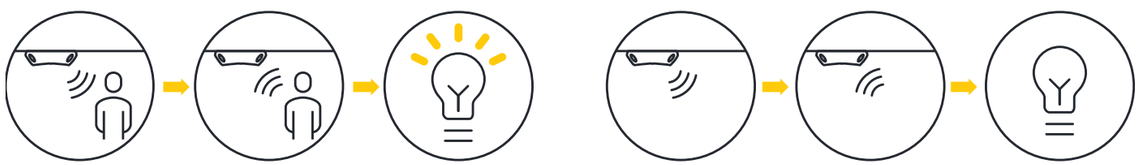
Ultrasonic sensors provide additional applications including slight motion sensing through walls and for difficult room layouts.

Ultrasonic

Ultrasonic sensors are active - they emit inaudible high frequency (32 kHz) sound waves and measure changes in how those waves bounce off of surrounding surfaces. These devices are extremely sensitive. Compared to PIR, they can detect much finer motion (e.g. hand gestures and nodding heads) at close range, and larger movements (e.g. waving arms or walking) from further away. Because of the way sound travels, ultrasonic sensors can also sense motion around corners and behind obstacles.



Ultrasonic Detection



Occupied

Unoccupied

PE Light level sensing

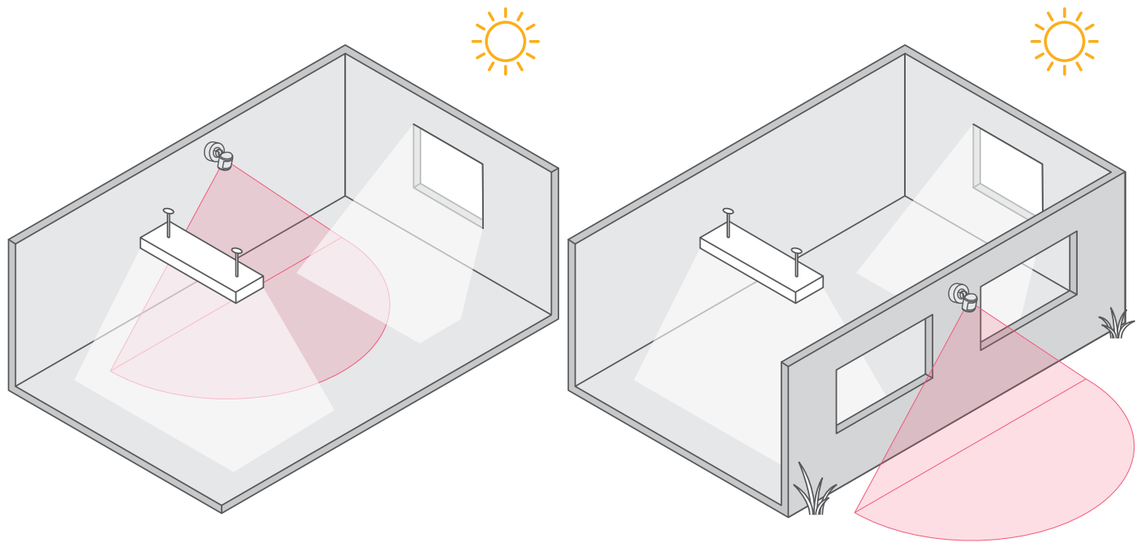
The photoelectric sensor can measure daylight, artificial light or a combination of both to maintain required lighting levels. Dynalite sensors can be configured for closed loop or open loop daylight regulation, to suit different sensor mounting locations.

Closed loop

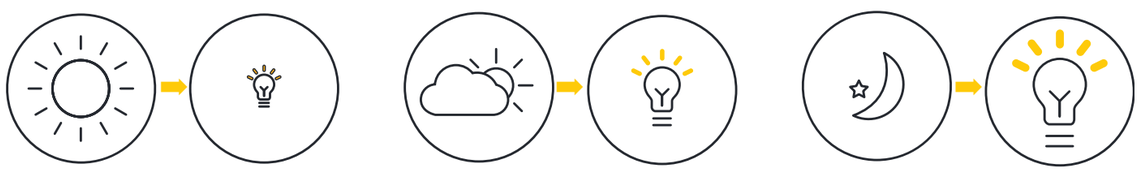
The sensor is mounted above the work area surface and calibrated to the required lux level. From this location the sensor can measure the sum of the natural and artificial lighting on visible surfaces and adjust the lamp dimming to keep the total within a comfortable range.

Open loop

This setting uses the sensor to reference lux levels outside of the lighting group, e.g. natural outside sunlight or the brightness of an adjacent internal area. Once properly calibrated, this method results in a similar effect to the closed loop setup even when the sensor can't be mounted within the lighting group's actual location.



Automatic balancing of natural and artificial light



Full sun – Lights low

Cloudy day – Lights medium

No sun – Lights full

IR Control

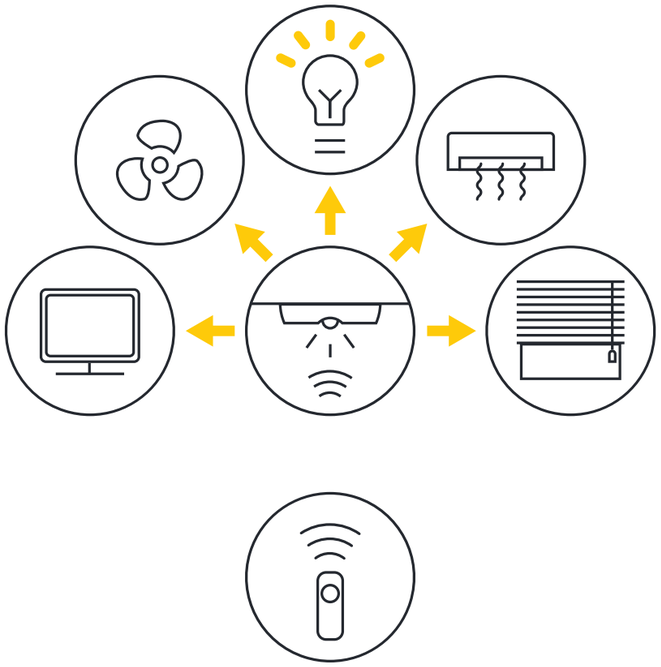
Using industry-standard RC5 IR codes, the sensor receives instructions from the user via a handheld remote or IR blaster.

Infrared

The user can select a preset scene, ramp lighting levels up or down, adjust the temperature setpoint, and control blinds or other third-party devices integrated into the system.

IR commands can also trigger complex pre-programmed tasks and sequences of events across the entire network.

During the commissioning process, this feature allows the user to remotely trigger the network sign-on command for each sensor without requiring physical access to the onboard service switch.



> “A Dynalite sensor enables IR commands to trigger complex pre-programmed tasks across the entire network.”

Sensor scan patterns

It is the role of the control system designer to match the correct sensor type and scan pattern to the space being controlled.

360° Sensors

360° Sensors are typically ceiling mounted. They provide excellent motion detection in larger areas, especially when working in concert with multiple network sensors in the same area.

DNS360LB-CR-PIR-DYNET
DNS360LB-CR-PIR-DALI

DNS360LB-CS-PIR-DYNET
DNS360LB-CS-PIR-DALI

These sensors are available for DyNet or DALI devices, and are ideal for all indoor environments.

Mounting options

The DNS360LB-CR-PIR-DYNET and DNS360LB-CR-PIR-DALI are designed for recessed mounting, while the DNS360LB-CS-PIR-DYNET and DNS360LB-CS-PIR-DALI offer the option of semi-recessed or surface mounting.

360° scan pattern

The scan pattern is rectangular with the long axis aligning along the Lux and IR sensors. The sensor can be rotated on installation to align the scan pattern to the room as required.

DUS804CS-UP

Our most flexible sensor, combining four sensing technologies – PIR, Ultrasonic, PE and IR.

Surface or semi-recessed mount

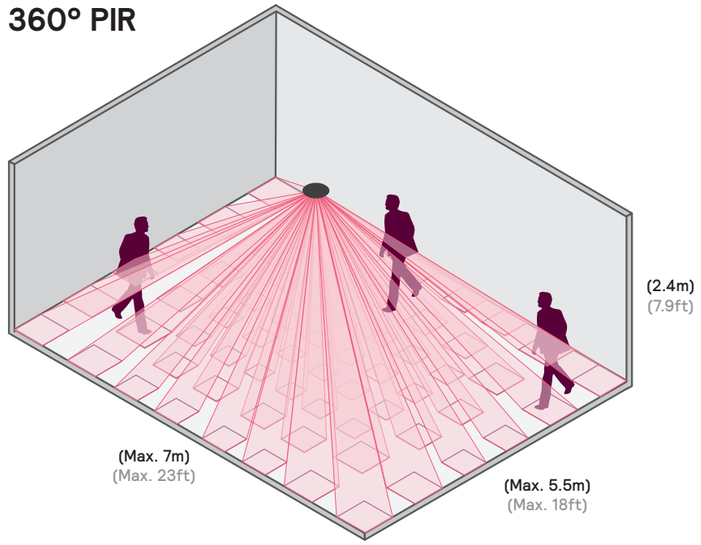
The DUS804C-UP is supplied ready for either mounting method.

360° dual scan patterns

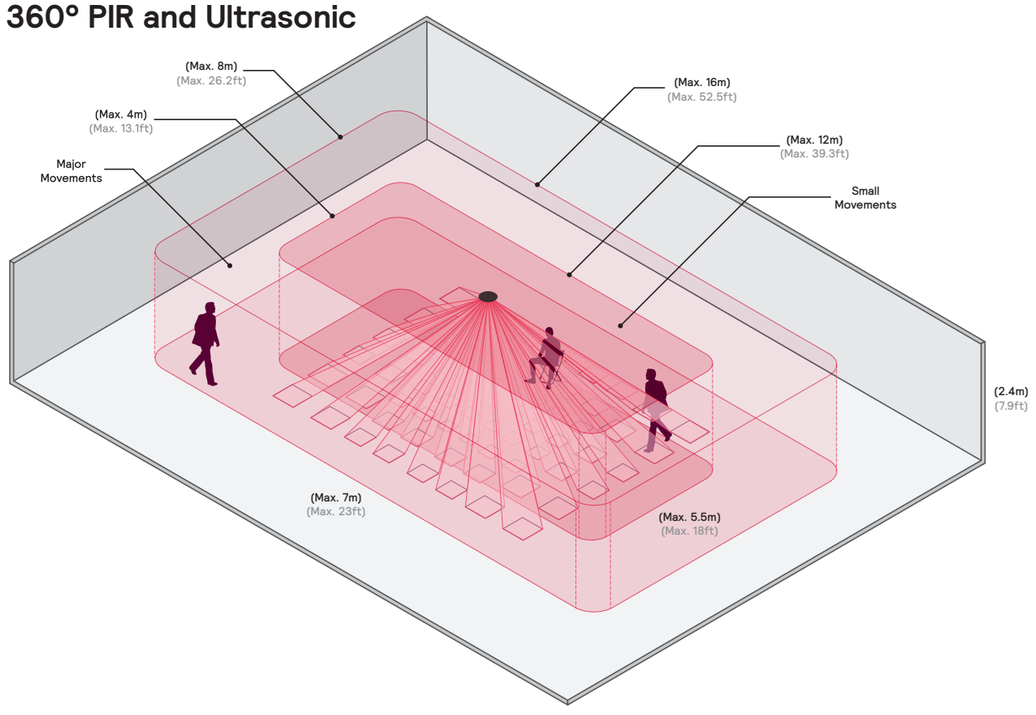
Supporting dual-technology motion sensing with PIR and Ultrasonic, this sensor combines a huge detection area with sensitivity to minor movement. The combination of sensing technologies results in two distinct motion sensing zones. The sensor is triggered by major movement such as walking anywhere in the larger area shown here. Once the person is seated or stationary within the inner area, small movements such as arm gestures are enough to maintain the occupied state.

Scan patterns

360° PIR



360° PIR and Ultrasonic



30° and 90° Sensors

Directional sensors can be wall or ceiling mounted. They provide accurate motion detection in smaller or longer spaces.

DUS30CS
DUS90CS

Our indoor/outdoor DyNet sensors can be ceiling or wall mounted with flexible angle adjustment.

- **Surface mount**

The surface mounting option provides the sensor with an IP54 rating, making it suitable for sheltered outdoor installation.

- **Semi-recessed mount**

Ideal for indoor mounting in a suspended ceiling

- **Directional PIR scan patterns**

These sensors share the same housing but use different lenses to produce scan patterns for different applications. The sensor is shipped ready for semi-recessed or surface mounting.

DUS30CS

30° narrow scan pattern with extended range. Ideal for scanning along corridors or monitoring a row of doorways.

DUS90CS

90° scan pattern with wide cover for general use. Ideal for detecting a person moving though a doorway or across a medium to large size room.

DUS30LHB-D
DUS90WHB-D
DUS90AHB-D

These surface-mounted DALI sensors share the same housing but use different lenses to produce scan patterns for specialized high-bay applications.

DUS30LHB-D

This long range sensor has the same 30° extended range scan pattern as the DUS30CS, ideal for monitoring corridors or a row of doorways.

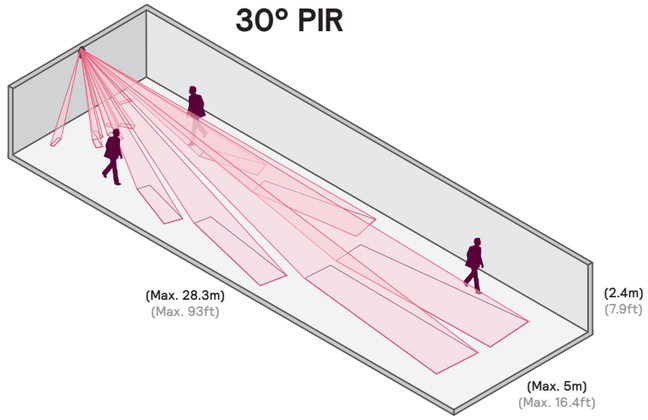
DUS90-WHB-D

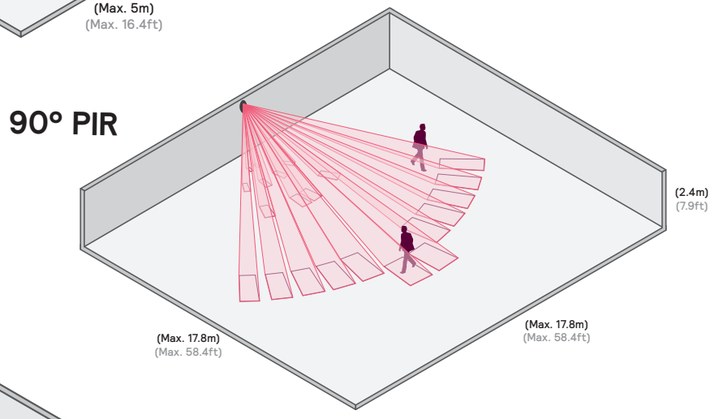
Filling the same role as the DUS90CS, this wide angle sensor is perfect for monitoring general use areas and smaller rooms.

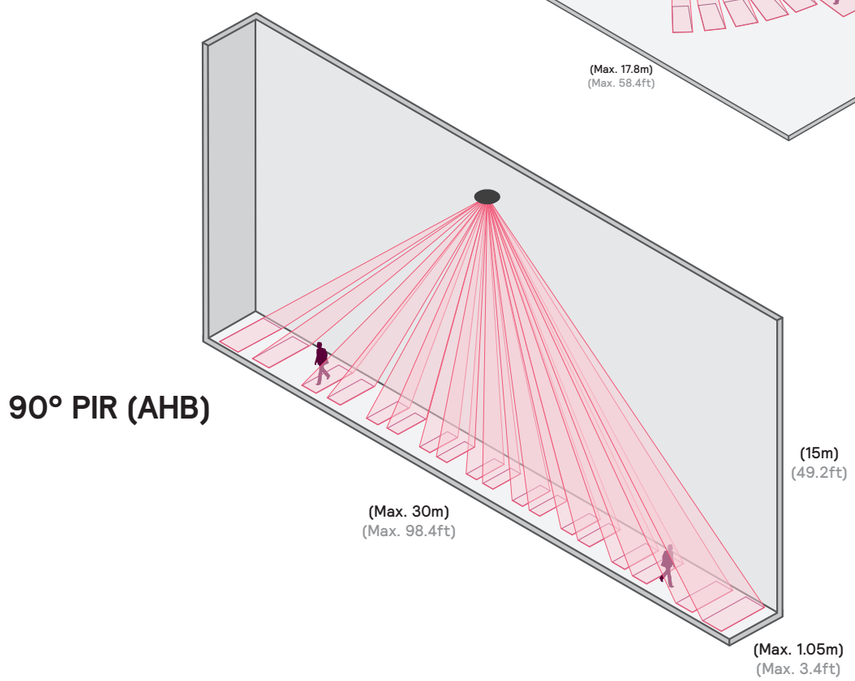
DUS90AHB-D

A specialised 90° narrow scan aisleway sensor intended for mounting directly above the subject, aimed straight down. With a 15m range, this sensor is ideal for high bay warehouse and factory applications, detecting occupancy along aisleways.

Scan patterns





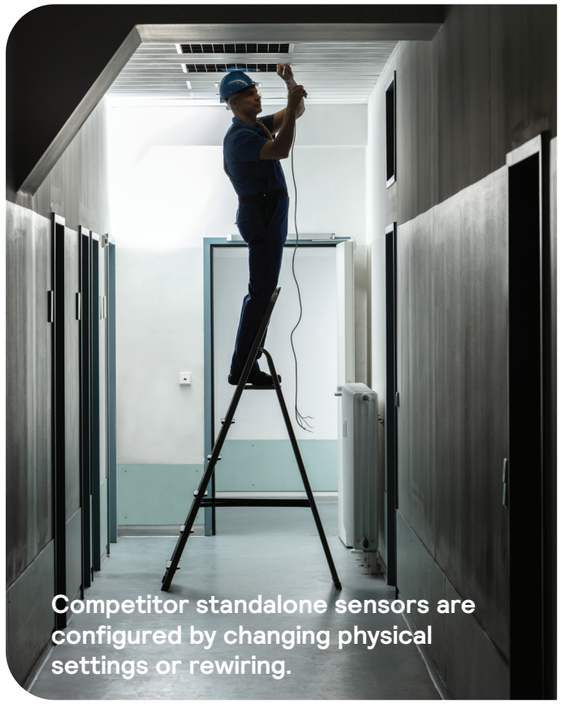


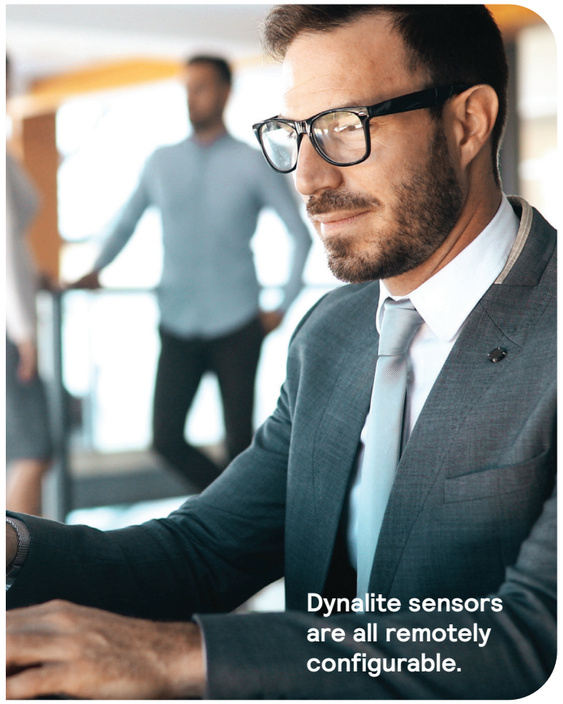
Competitive advantages

Dynalite sensor range

Configuration

Sensors need to be configured and precisely calibrated to meet the exact requirements of the space.





Standalone sensors are only configurable via a mix of DIP switches and rotary pots, offering a limited range of options and granularity of calibration.

Networked sensors offer an opportunity for significantly more advanced functionality, with perfectly calibrated thresholds, complex state-based behavior, real-time feedback from the sensor itself and other devices on the network, and fine-grained detection levels.

Additionally, Dynalite sensors are capable of intelligent scheduling and tasking, enabling options such as changing the sensor's motion timeout between trading and after hours. This behavior can be controlled independently by the sensor itself, or in response to remote commands from other devices on the network.

Standalone sensor configuration

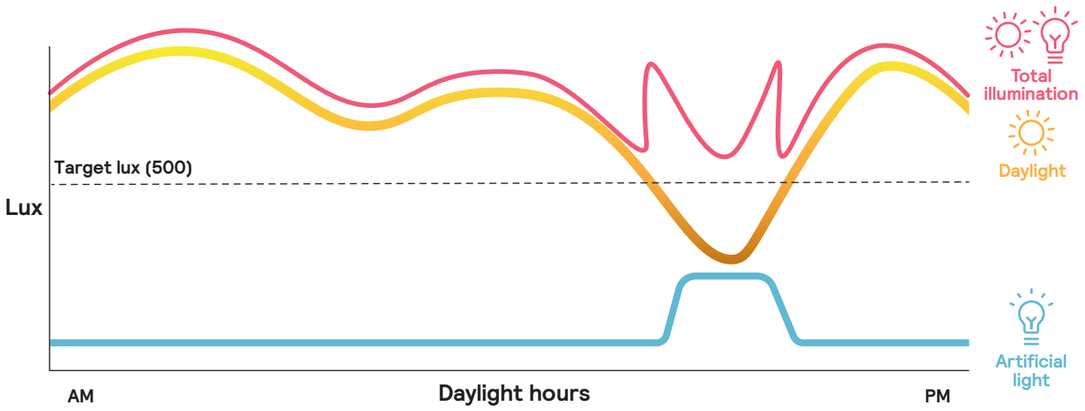
During installation the sensor is configured using mechanical inputs that need to be directly accessed, requiring removal and reinstallation of the device whenever modifications are required.

True networked sensor

Software can push firmware and configuration updates remotely to each sensor, to dynamically modify system functionality. The sensor can be directly queried for its measured lux levels to calibrate the correct response, or test the motion sensitivity during commissioning.

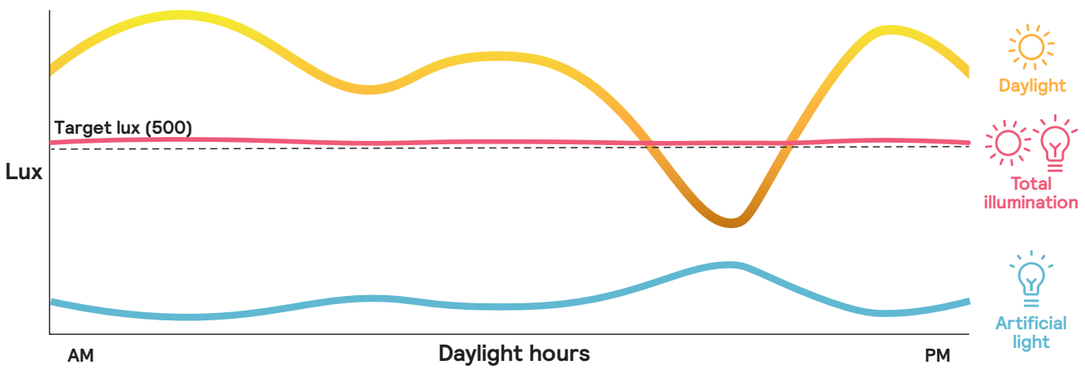
Light level regulation

To provide consistent lighting, a network sensor needs real-time communication to lighting controllers and a granular response to changing conditions.



Competitor – Standalone integrated sensor

Sensors with a single lux level trigger point are only able to communicate when a threshold level is passed. This can result in a period of poor illumination followed by a sudden jarring change in lighting levels as they finally catch up to shifting natural conditions.



Dynalite – True networked sensor

A true networked sensor can simultaneously detect occupancy, harvest daylight and control blinds by adjusting them to an intermediate position to filter the sunlight. This enables effective energy management without disrupting user comfort. To achieve this, a sensor needs a highly granular response to changing lighting conditions. The sensor communicates the exact light level detected so that the control system can make incremental adjustments to the lighting, inversely following the natural light, so that the occupants are not exposed to dramatic and disruptive changes.

Connectivity

Networked sensors offer a range of benefits over traditional standalone sensors, with no drawbacks.

Not all sensors are intelligent

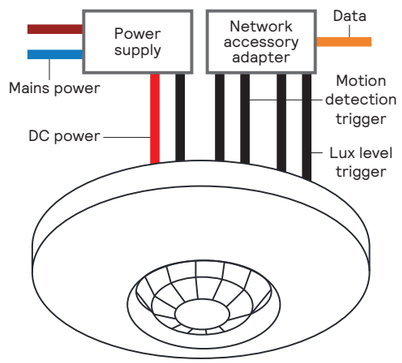
Many major networked lighting control companies don't support truly networked sensors, instead opting for a standalone sensor integrated via a separate network adaptor. This allows them to claim that they have networked sensors, but results in limited functionality.

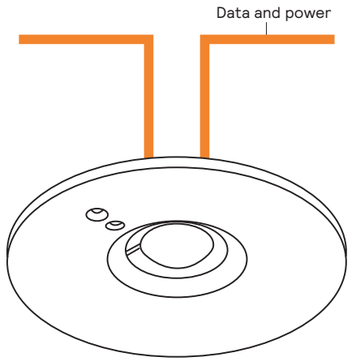
Standalone integrated sensor

Multiple accessories are needed to power and communicate with the sensor, adding hidden cost and installation complexity with no added functionality.

True networked sensor

The communications bus is connected directly to the sensor. As a result, the sensor can both send and receive network messages, and perform intelligent operations in concert with other sensors and other connected devices.
The Dynalite system uses a single cable for combined power and data, further simplifying the installation process and reducing costs while providing superior functionality.





> "Sensors can both send and receive network messages."

Feature	Standalone integrated sensor	Dynalite sensor
Single cable with power and data	✗	✓
Simplified installation with no need for network accessories	✗	✓
Direct communication with all other networked devices	✗	✓
Simultaneous multifunctional sensing	✗	✓
Scheduled and scene based dynamic behavior response	✗	✓
Granular analogue response to lux level changes	✗	✓
Automated on site lux level calibration and offset	✗	✓
Software configurable	✗	✓
Updates over the network	✗	✓

Product specifications

Dynalite sensor range

DyNet Sensors

DyNet sensors provide the ultimate in flexibility and scalability. By connecting directly to the Dynalite network, they enable automated control of any area in the building.

DNS360LB-CR-PIR-DyNet **Multifunction Sensor**

Low-profile recessed 360° ceiling sensor

The Dynalite DNS360LB-CR-PIR-DyNet is a recess mountable 360° multifunction sensor that combines motion detection (PIR), infrared remote-control reception (IR), and ambient light level detection (PE) in one device for applications such as offices, dining rooms, and residential.

Motion detection feature – Adjusts lighting in response to the presence or absence of motion.

Segmented click-up bezel – Surrounds the motion sensor element and enables a portion of the sensing field to be masked. This prevents nuisance detection from adjacent doorways or corridors.

Ambient light level detection – In applications where precise, consistent lighting is critical, the PE function measures ambient levels and adjusts artificial light accordingly.

Infrared receive capability – Inbuilt IR sensor enables control from a compatible hand-held RC5 IR remote.

Daylight harvesting – Delivers automatic energy savings.

Infrared receive capability – Enables sign-on identification to the networked system.

Anti-stumble sensing option – Helps users move safely at night without having to find a light switch (requires DNS180ASA faceplate).

Suitable for plenum use – UL 2043 certified for installation in air-handling plenum spaces.

Dimensions:
41 x 72 mm (1.61 x 2.83 in)

DNS180ASA DNS360CCA

Ordering Codes:

Product	Description	12NC
DNS360LB-CR-PIR-DyNet	RAL9003 (White)	913703274409
DNS360LB-CR-PIR-DyNet-RAL9005	RAL9005 (Black)	913703405209
DNS180ASA	Anti-Stumble faceplate for DNS360LB-CR-PIR	913703405509
DNS360CCA	Customisable faceplate for DNS360LB-CR-PIR	913703405609

DNS360LB-CS-PIR-DyNet **Multifunction Sensor**

Surface mount 360° ceiling sensor

The Dynalite DNS360LB-CS-PIR-DyNet is a surface-mountable 360° multifunction sensor that combines motion detection (PIR), infrared remote-control reception (IR), and ambient light level detection (PE) into one device for applications such as hospitality, lecture theatres, and residential.

Motion detection feature – Adjusts lighting in response to the presence or absence of motion.

Segmented click-up bezel – Surrounds the motion sensor element and enables a portion of the sensing field to be masked. This prevents nuisance detection from adjacent doorways or corridors.

Ambient light level detection – In applications where precise, even lighting is critical, the PE function measures ambient levels and adjusts artificial light accordingly.

Infrared receive capability – Inbuilt IR sensor enables control from a compatible hand-held RC5 IR remote.

Daylight harvesting – Delivers automatic energy savings.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Dimensions:
46 x 111 mm (1.82 x 4.37 in)

Ordering Codes:

Product	Description	12NC
DNS360LB-CS-PIR-DyNet	RAL9003 (White)	913703405309
DNS360LB-CS-PIR-DyNet-RAL9005	RAL9005 (Black)	913703405409

DyNet Sensors

DUS360CS **Multifunction Sensor**

Surface mount 360° ceiling sensor

The Dynalite DUS360CS is a surface mountable 360 degree multifunction sensor that combines motion detection (PIR), infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as hotels, restaurants and homes.

Motion detection feature – Detects the presence or absence of motion and adjusts lights accordingly.

Segmented click-up bezel – Surrounds the motion sensor element and enables a portion of the sensing field to be masked. This prevents nuisance detection from adjacent doorways or corridors.

Infrared receive capability – Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor.

Ambient light level regulation – In applications where it is critical to maintain precise light levels, the PE function reads ambient levels and adjusts artificial light accordingly.

Daylight harvesting mode – Delivers automatic energy savings.

Infrared receive capability – Manually adjust light levels using a hand-held remote control, via the inbuilt IR receiver.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Dimensions:
105 x 46 mm (4.34 x 1.81 in)

12NC – Ordering Code:
913703243109

DUS804CS-UP **Multifunction Ultrasonic Sensor**

Surface mount ceiling sensor with ultrasonic capability

The Dynalite DUS804CS-UP is a surface mountable 360 degree multifunction sensor that combines ultrasonic (UP), motion detection (PIR), infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as offices, industrial buildings and secure areas of public buildings.

Motion detection feature – Detection of motion within scanned area triggers a programmed lighting action. Ultrasonic technology enables motion detection behind fixed objects.

Ambient light level regulation – In applications where it is critical to maintain precise light levels, the PE function reads ambient levels and adjusts artificial light accordingly.

Infrared receive capability – Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor of the DUS804CS-UP.

Daylight harvesting mode – Delivers automatic energy savings.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Dimensions:
90 dia. x 32 mm (3.54 dia. x 1.26 in)

12NC – Ordering Code:
913703070409

DUS30CS **Multifunction Directional Sensor**

Wall/ceiling mount 30° multifunction sensor

The DUS30CS is wall or ceiling mountable multifunction sensor that combines motion detection (PIR), infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as offices, industrial buildings and homes.

Motion detection feature – Detects the presence or absence of motion and adjusts lights accordingly.

Ambient light level regulation – In applications where it is necessary to maintain even lighting, the PE function reads ambient levels and adjusts artificial light accordingly.

Daylight harvesting mode – Delivers automatic energy savings.

Infrared receive capability – Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor.

Multiple mounting options – The sensor has a 30° scan pattern with flexible angle adjustment and can be recessed or surface mounted on a wall or ceiling.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

IP54 rating – Dust- and splash-resistant housing allows installation in a variety of indoor and outdoor applications.

Dimensions:
98 x 90 x 153 mm (3.86 x 3.54 x 6.02 in)

12NC – Ordering Code:
913703244309

DUS90CS **Multifunction Directional Sensor**

Wall/ceiling mount 90° multifunction sensor

The DUS90CS is wall or ceiling mountable multifunction sensor that combines motion detection (PIR), infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as offices, industrial buildings and homes.

Motion detection feature – Detects the presence or absence of motion and adjusts lights accordingly.

Ambient light level regulation – In applications where it is necessary to maintain even lighting, the PE function reads ambient levels and adjusts artificial light accordingly.

Daylight harvesting mode – Delivers automatic energy savings.

Infrared receive capability – Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor.

Multiple mounting options – The sensor has a 90° scan pattern with flexible angle adjustment and can be recessed or surface mounted on a wall or ceiling.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

IP54 rating –
Dust- and splash-resistant housing allows installation in a variety of indoor and outdoor applications.

Dimensions:
98 x 90 x 153 mm (3.86 x 3.54 x 6.02 in)

12NC – Ordering Code:
913703244209

DALI Sensors

For projects using DALI lighting networks, DALI Sensors do not require additional wiring as they can be connected directly to the DALI network.

DNS360LB-CR-PIR-DALI **Multifunction Sensor**

Low-profile recessed 360° ceiling sensor powered by the DALI network

The Dynalite DNS360LB-CR-PIR-DALI is a recess mountable 360° multifunction sensor that combines motion detection (PIR), infrared remote-control reception (IR), and ambient light level detection (PE) in one device. The sensor is powered and communicates with the networked control system via a DALI bus.

DALI device – Designed to operate seamlessly with the Dynalite DDBC120-DALI or DDBC320-DALI controller.

Powered directly by the DALI network – Eliminates the need for additional network field wiring.

Motion detection feature – Detects the presence or absence of motion and triggers a programmed action.

Segmented click-up bezel – Surrounds the motion sensor element and enables a portion of the sensing field to be masked. This prevents nuisance detection from adjacent doorways or corridors.

Ambient light level detection – In applications where precise, even lighting is critical, the PE function measures ambient levels and adjusts artificial light accordingly.

Daylight harvesting – Delivers automatic energy savings.

Infrared receive capability – Enables sign-on identification to the networked system.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Dimensions:
41 x 72 mm (1.61 x 2.83 in)

Ordering Codes:

Product	Description	12NC
DNS360LB-CR-PIR-DALI	RAL9003 (White)	913703274509
DNS360LB-CR-PIR-DALI-RAL9005	RAL9005 (Black)	913703404809
DNS180ASA	Anti-Stumble faceplate for DNS360LB-CR-PIR	913703405509
DNS360CCA	Customisable faceplate for DNS360LB-CR-PIR	913703405609

Note: DNS and DUS sensors cannot be combined on the same DALI bus.

DNS360LB-CS-PIR-DALI **Multifunction Sensor**

Surface mount 360° ceiling sensor

The Dynalite DNS360LB-CS-PIR-DALI is a surface-mountable 360° multifunction sensor that combines motion detection (PIR), infrared remote-control reception (IR), and ambient light level detection (PE) in one device. The sensor is powered and communicates with the networked control system via a DALI bus.

DALI device – Designed to operate seamlessly with the Dynalite DDBC120-DALI or DDBC320-DALI controller.

Powered directly by the DALI network – Eliminates the need for additional network field wiring.

Motion detection feature – Detects the presence or absence of motion and triggers a programmed action.

Segmented click-up bezel – Surrounds the motion sensor element and enables a portion of the sensing field to be masked. This prevents nuisance detection from adjacent doorways or corridors.

Multiple mounting options – Can be partially recessed or surface-mounted using the supplied butterfly clips or junction box.

Ambient light level detection – In applications where precise, even lighting is critical, the PE function measures ambient levels and adjusts artificial light accordingly.

Daylight harvesting – Delivers automatic energy savings.

Infrared receive capability – Inbuilt IR sensor lets you manually adjust light levels using a compatible hand-held RC5 IR remote.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Dimensions:
46 x 111 mm (1.82 x 4.37 in)

Ordering Codes:

Product	Description	12NC
DNS360LB-CS-PIR-DALI	RAL9003 (White)	913703404909
DNS360LB-CS-PIR-DALI-RAL9005	RAL9005 (Black)	913703405009

DUS30LHB-D **Multifunction Directional Sensor**

Long-range high bay DALI network sensor

The Dynalite DUS30LHB-D is a 30 degree multifunction sensor that combines motion detection (PIR) and ambient light level detection (PE) in one device. The sensor uses the DALI protocol for power and communications to a network control system, eliminating the need for additional network field wiring. This sensor is useful for long-range detection.

DALI device – Designed to operate seamlessly with the Dynalite DDBC120-DALI or DDBC320-DALI controller.

Powered directly by the DALI network – Eliminates the need for any additional network field wiring.

Motion detection feature – Detects the presence or absence of motion and triggers a programmed action.

Ambient light level detection – In applications where it is critical to maintain precise lighting levels, the PE function reads ambient levels and adjusts artificial light accordingly.

Daylight harvesting – When used in conjunction with networked open loop daylight sensor.

Infrared receive capability – Enables sign-on identification to the networked system.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Targeted positioning – Directional wallmounting block allows sensors to be easily mounted and directed to the required area.

Dimensions:
66 x 70 x 61 mm (2.60 x 2.76 x 2.40 in)

12NC – Ordering Code:
913703015609

DALI Sensors

DUS90WHB-D **Multifunction Directional Sensor**

Wide-angle high bay DALI network sensor

The Dynalite DUS90WHB-D is a 90 degree multifunction sensor that combines motion detection (PIR) and ambient light level detection (PE) in one device. The sensor uses the DALI protocol for power and communications to a network control system, eliminating the need for additional network field wiring. This is a wide-angle, general-purpose sensor.

DALI device – Designed to operate seamlessly with the Dynalite DDBC120-DALI or DDBC320-DALI controller.

Powered directly by the DALI network – Eliminates the need for any additional network field wiring.

Motion detection feature – Detects the presence or absence of motion and triggers a programmed action.

Ambient light level detection – In applications where it is critical to maintain precise lighting levels, the PE function reads ambient levels and adjusts artificial light accordingly.

Daylight harvesting – When used in conjunction with networked open loop daylight sensor.

Infrared receive capability – Enables sign-on identification to the networked system.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Targeted positioning – Directional wall-mounting block allows sensors to be easily mounted and directed to the required area.

Dimensions:
66 x 70 x 61 mm (2.60 x 2.76 x 2.40 in)

12NC – Ordering Code:
913703015509

DUS90AHB-D **Multifunction Directional Sensor**

Aisleway high bay DALI network sensor

The Dynalite DUS90AHB-D is a 90 degree multifunction sensor that combines motion detection (PIR) and ambient light level detection (PE) in one device. The sensor uses the DALI protocol for power and communications to a network control system, eliminating the need for additional network field wiring. This sensor is ideal for mounting between warehouse shelving.

DALI device – Designed to operate seamlessly with the Dynalite DDBC120-DALI or DDBC320-DALI controller.

Powered directly by the DALI network – Eliminates the need for any additional network field wiring.

Motion detection feature – Detects the presence or absence of motion and triggers a programmed action.

Ambient light level detection – In applications where it is critical to maintain precise lighting levels, the PE function reads ambient levels and adjusts artificial light accordingly.

Daylight harvesting – When used in conjunction with networked open loop daylight sensor.

Infrared receive capability – Enables sign-on identification to the networked system.

Corridor hold – Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms.

Targeted positioning – Directional wallmounting block allows sensors to be easily mounted and directed to the required area.

Dimensions:
66 x 70 x 61 mm (2.60 x 2.76 x 2.40 in)

12NC – Ordering Code:
913703015409

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