

# LightSpot HD

Lighting Control Sensors



**5** YEAR  
WARRANTY



## Making light work since 1984

For 30 years LightSpot has been helping our customers make light work.

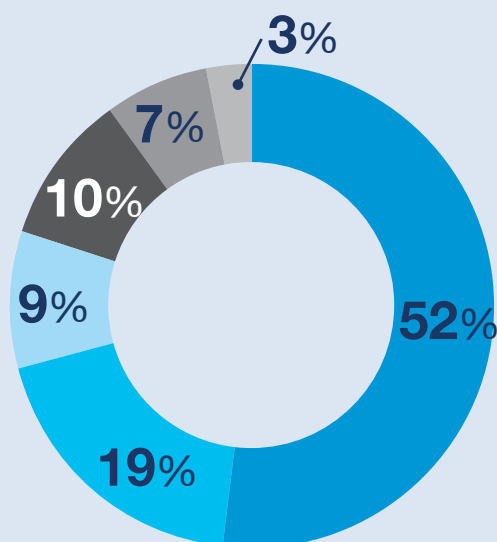
Energy Conservation Solutions (ECS) helps our customers reduce their energy bills, lower their carbon footprint and improve business performance.

There was a time when lighting was just about illumination. Today it is about balancing the creation of a comfortable working environment with capital expenditure and ongoing life-cycle costs.

Our range of new generation lighting controls can help you save on energy costs - sometimes as much as 70%. This is achieved by ensuring the lights are off when the space is unoccupied and maximising the use of natural daylight when possible.

## Making light work for energy saving

ECS understands the changing requirements for lighting control across a range of applications. This know-how enables the delivery of optimum energy savings without compromising the comfort and performance of the space. Innovations like micro and macro detection, enhanced photocell technology, yin-yang style pyrolytic and the number of sensor zones/facets ensure the optimum light is always provided.



## How your building uses energy

- Heating, ventilation and cooling
- Lighting
- Hot water
- Catering
- Other
- Computing

Source: Department of Energy and climate change (July 2012)

# Introducing LightSpot HD



When choosing a lighting control solution, different stakeholders tend to have different priorities. From our experience, through engagement with these stakeholder groups, we found the following three points to be the highest priority for each group.



## Architects

- Small, aesthetically pleasing and unobtrusive sensors
- Consistent footprint and overall look across the range of sensors
- Uniformity of lighting levels across the controlled environment



## Consultants

- Sensors for all applications, accommodating design flexibility
- Detection range and sensitivity of sensors
- High degree of functionality and reliability



## Electrical Contractor

- Non-labour intensive systems for both installation and commissioning
- Flexible systems that can be re-configured on the run
- Pre-programmed, walk away



## End User

- Oblivious to its existence
- Controlling the facility's lighting in an energy efficient manner without compromising comfort levels
- Minimal operating expenditure over the life of the system

LightSpot HD delivers on all stakeholder priorities and more



# How LightSpot HD makes light work with ease



LightSpot HD sensors provide comfort and safety for a productive working environment, and drive significant energy efficiencies.

#### LightSpot HD features also include:

- Precise lens masking
- LED diagnostics for operational status
- Upgradable firmware
- Mounting height options up to 16m
- DALI, DSI and 1-10V analogue dimming
- Auto detect DSI/DALI
- Switching controls
- Integrated photo cell
- Lens tilting
- Low power consumption - 150mW
- QuickAnalytics - logs data
- Restore factory defaults
- Available in both surface and flush mount
- Out of box behaviour - pre-programmed
- Absence and presence feature in the one sensor
- IP55 sensor available

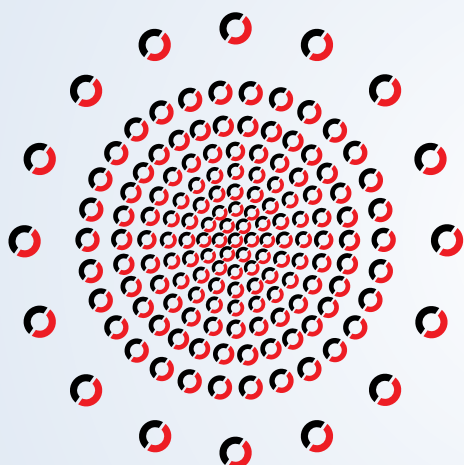


#### LightSpot HD connection and mounting options:

- Pluggable connectors
- Colour-coded connectors for ease of installation, mitigating errors and saving time

#### Two flush mounting options:

- Spring clips - ideal for plasterboard ceilings (supplied as standard)
- Locking ring - great for ceiling tiles (ordered separately)



With the introduction of a unique yin-yang style pyrolytic sensing element and 155 individual zone/facets, LightSpot HD provides class-leading sensitivity and precise occupancy detection, making it almost impossible for occupants to avoid detection. Even the slightest movements will trigger the sensor.

Sensitivity adjustments allow fine tuning to further meet exact lighting requirements so that shorter time delays can be set, delivering greater energy savings

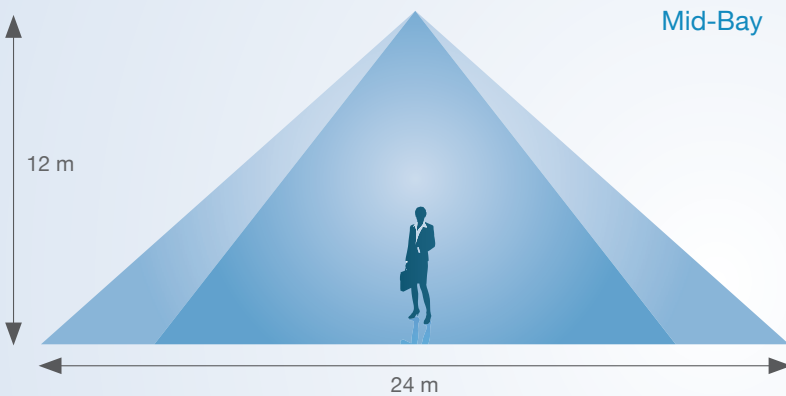
# Make light work for comfort and productivity



Class-leading sensitivity combined with micro and macro detection gives complete dependability, ensuring that the lighting is always on when needed.

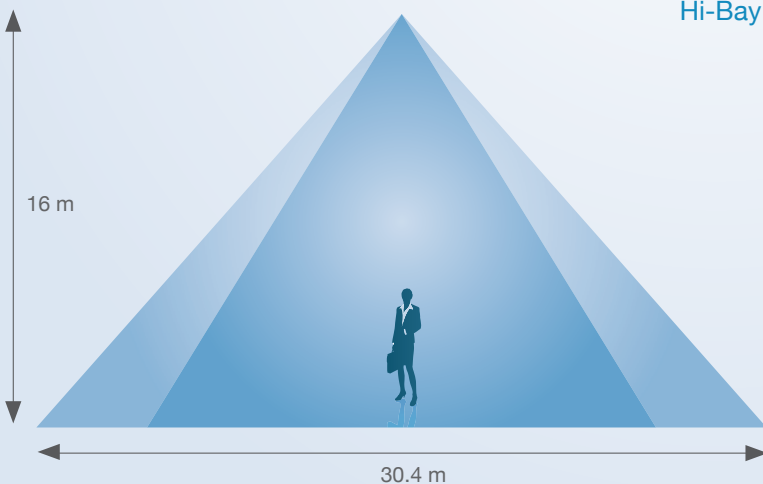
When installed at a height of 2.5m, LightSpot HD sensors deliver a highly sensitive micro detection diameter of 7m within a 10m macro detection diameter.

The Mid-Bay and Hi-Bay LightSpot HD sensors are engineered to deliver optimum presence detection for areas with mounting heights up to 16m.



When the Mid-Bay sensor is installed at a height to 12m, it delivers a highly sensitive detection diameter or 24m.

Height to detection ratio 1:2



When the Hi-Bay sensor is installed at a height to 16m, it delivers a highly sensitive detection diameter or 30.4m.

Height to detection ratio 1:1.9

# Make light work for comfort and productivity

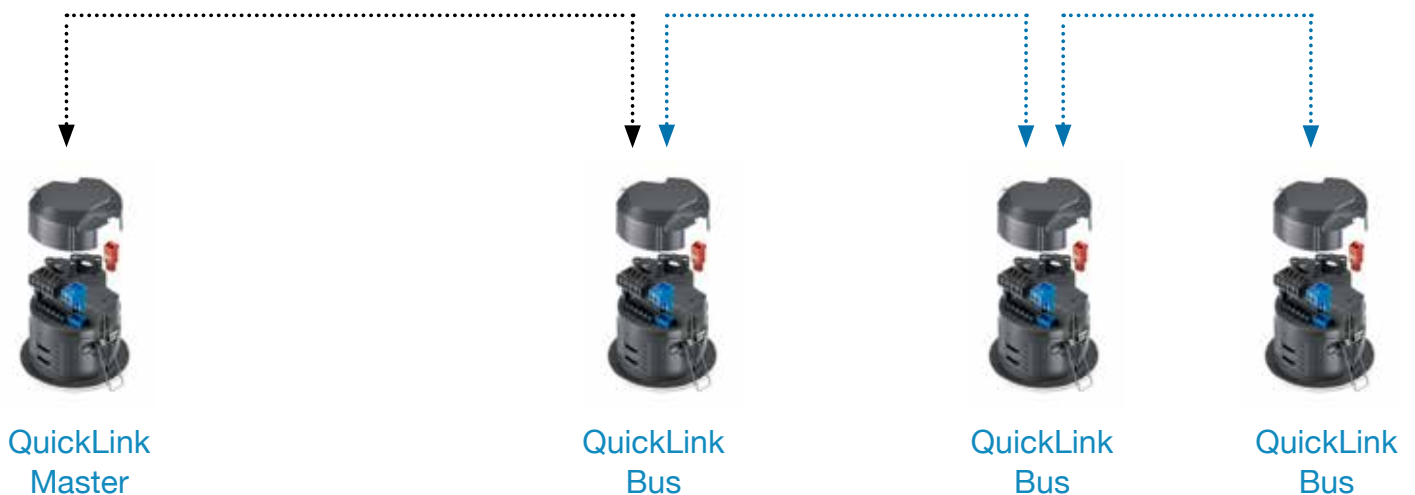
## QuickLink delivers flexibility

QuickLink is a unique, intelligent solution that lets you easily create a small network of up to four sensors. Each sensor can act independently or as an integral part of the network. Bus sensors are linked with just two low voltage connections.

QuickLink networks improve the intelligence of your system as the occupancy and light level data can be shared between the sensors as well as act independently if needed.

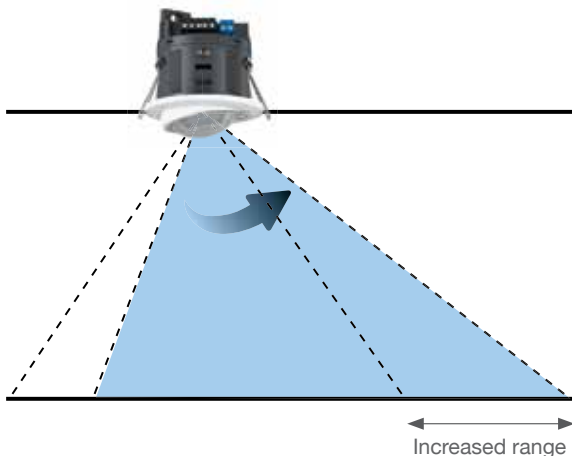
## Applications includes:

- Corridor linking, ensuring you will always walk into an appropriately lit corridor
- Washroom/Airlock
- System extensions



## Lens Tilting

Many LightSpot HD sensors offer lens tilting for installation and commissioning flexibility. The detection zone can be adjusted to accommodate difficult installation locations and our unique anti-tamper 'twist-2-lock' feature locks the detection area in position.



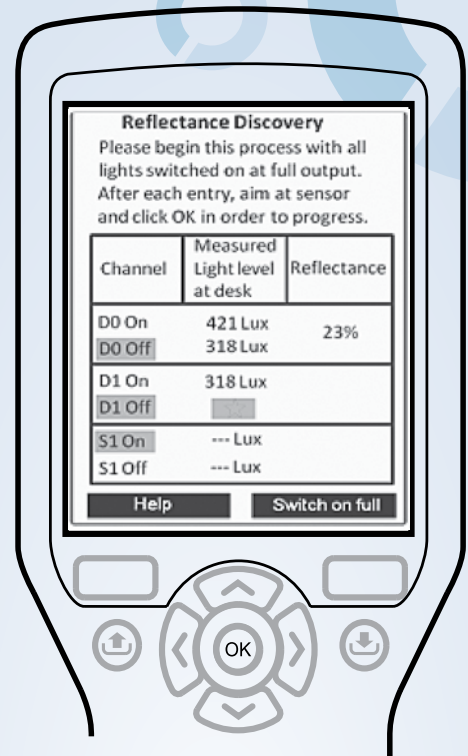
Lens Tilting	
Type	Radius Extension at full tilt
Office	Up to 60%
Mid-Bay	Up to 40%
Hi-Bay	Up to 40%

# LightSpot HD

## LuxLevel

Getting the light level just right in any environment is essential. LightSpot HD sensors have enhanced photocell technology, which gives the user the ability to set the lux values (e.g. 320 Lux) as a programming parameter.

The advanced photocell gives the ability to assign different lux values to each independent channel.



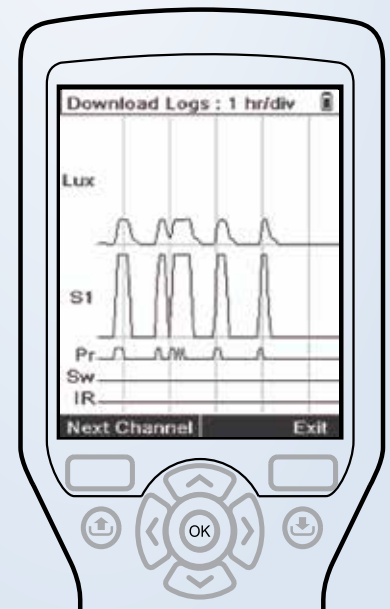
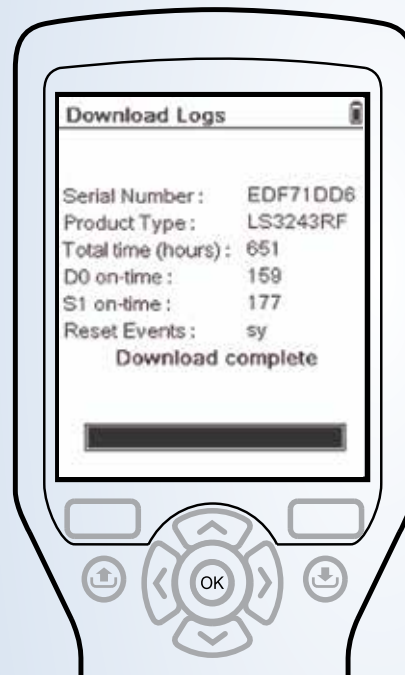
# LightSpot HD

## QuickAnalytics

LightSpot HD sensors can provide analytical information to the user by monitoring the energy consumption within a particular sensor zone. This allows for adjustments to be made to better control the lighting in regard to:

- Increased energy savings
- Shorter on/off time
- Adjustment of lux levels

QuickAnalytics displays each channel graphically, which can also be uploaded to your PC.



# How LightSpot HD makes light work in Offices

LightSpot HD sensors provide comfort and safety for a productive working environment and drive significant energy efficiencies.

## LightSpot HD features for offices include:

- **Precise lens masking and lens tilting** allow you to create detection zones so that people walking through corridors in an open plan office will not falsely trigger lights
- **QuickLink sensors** are great when you change an office layout. Simply add sensors to easily control the lights in a newly configured space
- **Micro detection zones** precisely detect small movements and ensure the lights stay on even during sedentary tasks such as working at a computer
- The comprehensive LightSpot HD range includes DALI, DSI and 1-10V dimming as well as switching controls. In addition to providing manual one-switch on, off and dimming, all sensors feature built-in photocells, which provide regulation of the lighting to user-defined lux levels ensuring a constant light level is maintained





# Make light work in Education

Getting the light levels just right in a classroom environment is essential. Retaining attention and optimising the learning experience is vital in the modern high tech learning environment.

Multiple sensing technologies connected by the QuickLink network is a simple and cost effective way to control classroom lighting.

You can set the light level by lux value, optimising natural daylight without compromising comfort. You can also employ sensors with photocells to dim lights near windows and above projector screens, while maintaining brighter light levels above student desks.



# Make light work in Healthcare

Hospital power supplies are either essential (uninterruptible) or non-essential (fail in a power outage).

Using QuickLink, our intelligent solution for small lighting networks, you can create a system that controls both essential and non-essential lighting.

For example, the luminaires in a ward might be supplied by essential and non-essential supplies. A master sensor may control lighting loads connected to the essential supply while a bus sensor, installed with just two low voltage connections, provides synchronised control of non-essential lighting.

This means that lighting is not compromised if there is a power interruption, and you still enjoy the energy saving benefits of LightSpot HD.



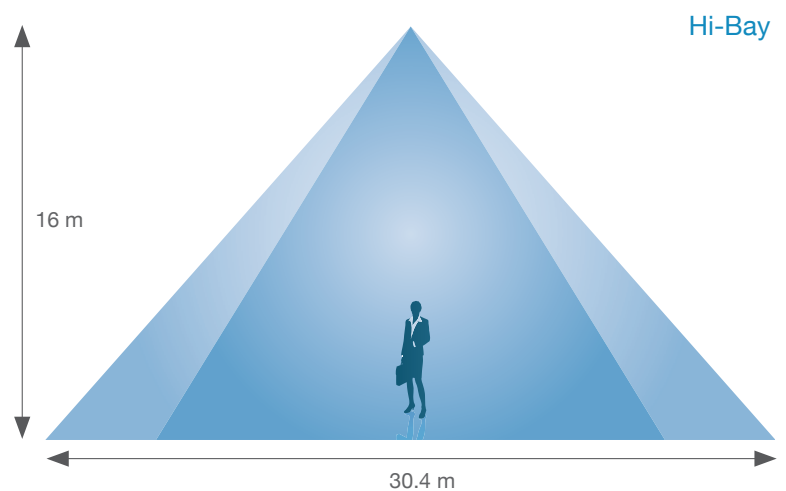
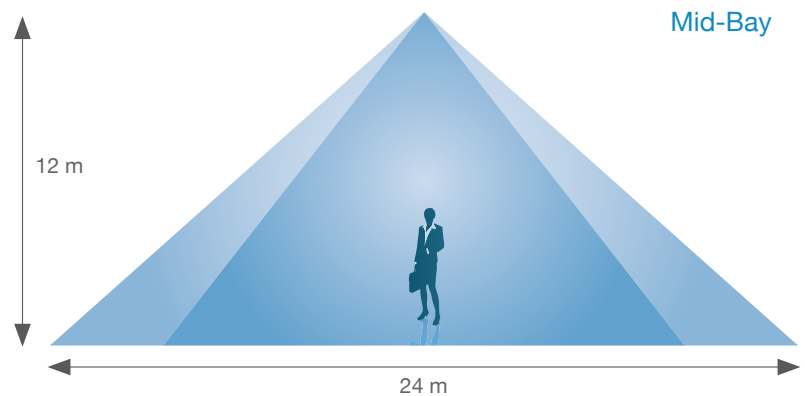
# How LightSpot HD makes light work in Warehouses

Large open warehouses with high ceilings mean high energy costs. The LightSpot HD range includes sensors that are optimised for peak performance in these spaces.

Using high definition optics, precise masking and user-defined daylight linking, LightSpot HD saves energy by ensuring lights are never left burning needlessly in vacant areas or where there is already enough natural light.

The range covers mounting heights up to 16m in recessed and surface mounts.

Both the Mid-Bay and Hi-Bay LightSpot HD sensors are engineered to deliver optimum presence detection for areas with a mounting height up to 16m. The Mid-Bay sensor is suited to mounting heights up to 12m, while the Hi-Bay sensor is suited to mounting heights up to 16m.



# Make light work with ease



## QuickSet Pro

The QuickSet Pro infra-red programming tool makes it quick and easy to adjust or commission your system, make changes to the settings and add new devices.

### Some of its features include:

- Auto software update
- Holds and stores data
- Pre-commission prior to visiting site
- Fully backwards compatible with all Ex-Or products
- Helps you verify your energy savings
- Restore factory defaults



## QuickSet

QuickSet is a basic infra-red programming tool specifically designed for LightSpot HD.

### Its features include:

- Four time delay settings - 5, 10, 20 and 40 minutes
- Presence and absence detection mode
- Enable/disable photocell
- Walk test
- Set regulating light level in conjunction with a lux meter
- Restore factory defaults



## QuickControl

QuickControl is ideal for simple day-to-day control of your LightSpot HD system.

### Its features include:

- On/Off control
- Light level adjustment
- Set and recall six lighting scenes

# PRODUCT SELECTOR

## LightSpot HD Switching Sensors

PRODUCT CODE	DESCRIPTION
LS3100R	LightSpot HD Switching Sensor with Manual Override
LS3200R	LightSpot HD Switching Sensor with Programmable Manual Override
LS3200RIP	LightSpot HD IP55 Switching Sensor with Programmable Manual Override
LS3243R	LightSpot HD QuickLink Master Switching Sensor with Lens Tilting and Low Power

## LightSpot HD Dimming Sensors

PRODUCT CODE	DESCRIPTION
LS3000AR	LightSpot HD 1-10V Analogue Dimming Sensor
LS3000D	LightSpot HD Digital Dimming Sensor
LS3000DR	LightSpot HD Digital Dimming Sensor with Relay
LS3043AR	LightSpot HD QuickLink Master 1-10V Analogue Dimming Sensor with Lens Tilting and Low Power
LS3043DR	LightSpot HD QuickLink Master Digital Dimming Sensor with Lens Tilting and Low Power

## LightSpot HD QuickLink Daylight Sensors

PRODUCT CODE	DESCRIPTION
LS3340D	LightSpot HD Photocell Digital Dimming QuickLink Master Sensor Low Power
LS3340A	LightSpot HD Photocell Analogue Dimming QuickLink Master Sensor Low Power
LS3360	LightSpot HD Photocell QuickLink Low Voltage Bus Connection Sensor

## LightSpot HD QuickLink Sensors

PRODUCT CODE	DESCRIPTION
LS3243R	LightSpot HD QuickLink Master Switching Sensor with Lens Tilting and Low Power
LS3043AR	LightSpot HD QuickLink Master 1-10V Analogue Dimming Sensor with Lens Tilting and Low Power
LS3043DR	LightSpot HD QuickLink Master Digital Dimming Sensor with Lens Tilting and Low Power
LS3260	LightSpot HD Low Voltage QuickLink Bus Connection Sensor
LS3270	LightSpot HD Low Voltage QuickLink Bus Connection Sensor with ELV Switch Inputs and VF O/P
LS3283R	LightSpot HD Switching Low Voltage QuickLink Bus Connection Sensor with ELV Switch Inputs VF O/P and Lens Tilting

## LightSpot HD Tools

PRODUCT CODE	DESCRIPTION
QuickControl	LightSpot HD Infra-red User Controller
QuickSet	LightSpot HD Infra-red Programming Tool
QuickSet Pro	LightSpot HD Digital 2-Way Programming Tool

## LightSpot HD High Mounting Switching Sensors

PRODUCT CODE	DESCRIPTION
LS3100RMB	LightSpot HD Mid-Bay Switching Sensor with Manual Override
LS3100RHB	LightSpot HD Hi-Bay Switching Sensor with Manual Override
LS3200RMB	LightSpot HD Mid-Bay Switching Sensor with Programmable Manual Override
LS3200RHB	LightSpot HD Hi-Bay Switching Sensor with Programmable Manual Override
LS3243RMB	LightSpot HD Mid-Bay QuickLink Master Switching Sensor with Lens Tilting and Low Power
LS3243RHB	LightSpot HD Hi-Bay QuickLink Master Switching Sensor with Lens Tilting and Low Power

## LightSpot HD High Mounting Dimming Sensors

PRODUCT CODE	DESCRIPTION
LS3000ARMB	LightSpot HD Mid-Bay 1-10V Analogue Dimming Sensor
LS3000DMB	LightSpot HD Mid-Bay Digital Dimming Sensor
LS3000DRMB	LightSpot HD Mid-Bay Digital Dimming Sensor with Relay
LS3000ARHB	LightSpot HD Hi-Bay 1-10V Analogue Dimming Dimming Sensor
LS3000DHB	LightSpot HD Hi-Bay Digital Dimming Sensor
LS3000DRHB	LightSpot HD Hi-Bay Digital Dimming Sensor with Relay
LS3043DRMB	LightSpot HD Mid-Bay QuickLink Master Digital Dimming Sensor with Lens Tilting and Low Power with Relay
LS3043DRHB	LightSpot HD Hi-Bay QuickLink Master Digital Dimming Sensor with Lens Tilting and Low Power

## LightSpot HD QuickLink High Mounting Sensors

PRODUCT CODE	DESCRIPTION
LS3243RMB	LightSpot HD Mid-Bay QuickLink Master Switching Sensor with Lens Tilting and Low Power
LS3243RHB	LightSpot HD Hi-Bay QuickLink Master Switching Sensor with Lens Tilting and Low Power
LS3043DRMB	LightSpot HD Mid-Bay QuickLink Master Digital Dimming Sensor with Lens Tilting and Low Power with Relay
LS3043DRHB	LightSpot HD Hi-Bay QuickLink Master Digital Dimming Sensor with Lens Tilting and Low Power with Relay
LS3260MB	LightSpot HD Mid-Bay Low Voltage QuickLink Bus Connection Sensor
LS3260HB	LightSpot HD Hi-Bay Low Voltage QuickLink Bus Connection Sensor

## LightSpot HD Accessories

PRODUCT CODE	DESCRIPTION
SURFMT	LightSpot HD Surface Mount Kit
RTRADP	Retrofit Adaptor For Converting Legacy LightSpot Mounting
LOCKRING	LightSpot HD Secure Flush Mount Adaptor

LightSpot HD QuickLink Daylight Sensors are photocell only, all LightSpot HD sensors include photocell. LSHD is available in both surface (SM) and flush mounting (F). LS3200RIP is available in flush mounting only.

Information correct at the time of printing.