iLight Solo Sensors

230V mains powered stand
alone sensor guide

iLight Solo Sensors

The iLight Solo range of 230v occupancy sensors are designed to deliver energy efficiency, comfort and code compliance across a wide range of stand alone lighting applications. Programmable features make these units easy to set up, configure and use for a tailored solution for each individual requirement. The following selection guide has been designed to summarize the key features and applications. Please consult individual product datasheets and installation instructions for more detail at: www.iLight.co.uk/sensors

## Passive Infra-red (PIR) Ceiling Sensors

PPD-C-230V

Stand alone mains voltage powered, ceiling mounted PIR (passive infrared) sensor.
- Presence detection
- Manual adjustment only
- Adjustable light level threshold
- Adjustable timer
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

Applications
Smaller offices, toilets, circulation areas.

Detection

Area of high sensitivity   Area of lower sensitivity
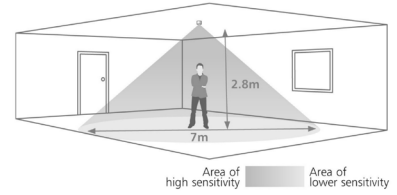
Accessories
SB-C Surface mount box
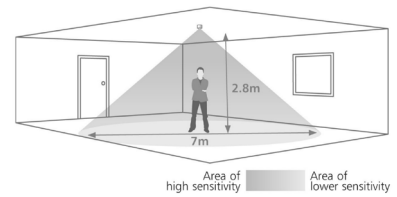SB-C-EX Surface box extension

PPAD-C-230V

Stand alone mains voltage powered, ceiling mounted PIR sensor.
- Presence or absence detection
- Adjustable light level threshold
- Adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

Applications
Smaller offices, toilets, circulation areas.

Detection

Area of high sensitivity   Area of lower sensitivity

Accessories
SB-C Surface mount box
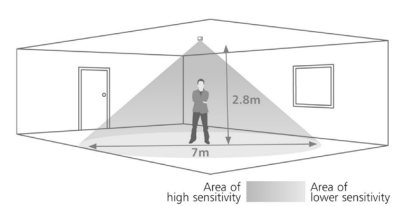SB-C-EX Surface box extension

PPAD-C-DALI-230V

Stand alone mains voltage powered, ceiling mounted PIR sensor with DALI / DSI dimming.
- Presence or absence detection
- Light level sensor
- Adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

Applications
Open plan office, Modular offices, commercial spaces where daylight harvesting and minimum light levels are required.

Detection

Area of high sensitivity   Area of lower sensitivity

Accessories
SB-C Surface mount box
SB-C-EX Surface box extension

Passive Infra-red (PIR) High bay Ceiling Sensors
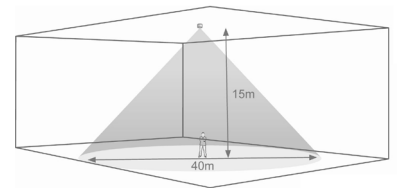
PPAD-C-HB-230V

High Bay, stand alone mains voltage powered, ceiling mounted PIR sensor.
- Presence or absence detection
- Adjustable light level threshold
- Adjustable timer
- IR Receiver for remote setup
- IP40 / IP65 with supplied gasket
- Max mounting height: 15m
- Dims: 88mm Ø x 112mm Depth

Applications
Warehouse, storage aisle, industrial, atriums, high bay applications.

Detection

Accessories
SB-C Surface mount box
SB-C-EX Surface box extension
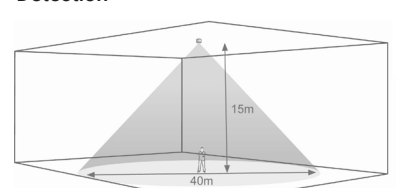
PPAD-C-HB-DALI-230V

High bay, stand alone mains voltage powered, ceiling mounted PIR sensor with DALI / DSI dimming.
- Presence or absence detection
- Light level sensor
- Adjustable timer
- IR Receiver for remote setup
- IP40 / IP65 with supplied gasket
- Max mounting height: 15m
- Dims: 88mm Ø x 112mm Depth

Applications
Warehouse, storage aisle, industrial, atriums, high bay where daylight harvesting and minimum light levels are required.
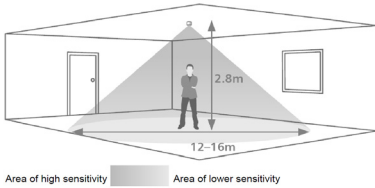
Detection

Accessories
SB-C Surface mount box
SB-C-EX Surface box extension

Microwave Ceiling Sensors

Detection

2.8m

12–16m

Area of high sensitivity   Area of lower sensitivity

Applications
Larger offices, classrooms and commercial spaces.

Stand alone mains voltage powered, ceiling mounted microwave sensor.
- Presence or absence detection
- Adjustable light level threshold
- Adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

Accessories
SB-C Surface mount box
SB-C-EX Surface box extension

MPAD-C-230V

Detection
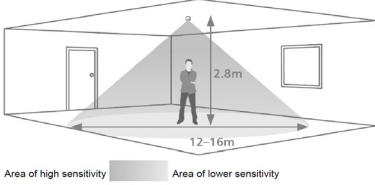
2.8m

12–16m

Area of high sensitivity   Area of lower sensitivity

Applications
Larger offices, classrooms and commercial spaces where daylight harvesting and minimum light levels are required.
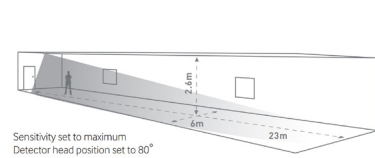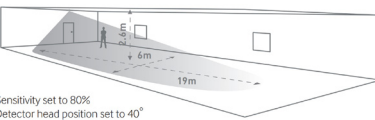
Stand alone mains voltage powered, ceiling mounted microwave sensor with DALI / DSI dimming.
- Presence or absence detection
- Light level sensor
- Adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

Accessories
SB-C Surface mount box
SB-C-EX Surface box extension

MPAD-C-DALI-230V

Microwave Adjustable Ceiling Sensors

Detection

2.4m

6m   23m

Sensitivity set to maximum
Detector head position set to 80°

2.4m

6m   19m

Sensitivity set to 80%
Detector head position set to 40°

Stand alone mains voltage powered, ceiling mounted adjustable microwave sensor.
- Adjustable detector head / range
- Presence or absence detection
- Adjustable light level threshold
- Adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 85mm Ø x 99mm Depth

Accessories
SB-C-A Surface mount box
SB-C-A-EX Surface box extension

MPAD-C-A-230V
MPAD-C-A-230V-R2
MPAD-C-A-230V-R3
MPAD-C-A-230V-R4
MPAD-C-A-230V-R5

Microwave frequency compatibility
Frequency of operation is different depending on region.
Please select the correct suffix using the table on the rear page

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2.4m

6m   17m

Sensitivity set to maximum
Detector head position set to 0°

Applications
Large office spaces, class rooms, corridors.

Stand alone mains voltage powered, ceiling mounted adjustable microwave sensor with
DALI / DSI dimming.
- Adjustable detector head / range
- Presence or absence detection
- Light level sensor
- Adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 85mm Ø x 99mm Depth

Accessories
SB-C-A Surface mount box
SB-C-A-EX Surface box extension

MPAD-C-A-DALI-230V
MPAD-C-A-DALI-230V-R2
MPAD-C-A-DALI-230V-R3
MPAD-C-A-DALI-230V-R4
MPAD-C-A-DALI-230V-R5

Microwave frequency compatibility
Frequency of operation is different depending on region.
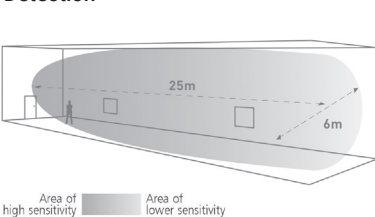Please select the correct suffix using the table on the rear page

Microwave Exterior Sensor

Detection

25m

6m

Area of high sensitivity   Area of lower sensitivity

Weather proof stand alone mains voltage powered, wall mounted microwave sensor.
- IP66 enclosure
- Presence detection
- Adjustable light level threshold
- Adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 110 x 110 x 63mm

Applications
Exterior spaces, carparks, courtyards, entrance ways.
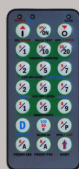
MPD-W-EXT-230V
MPD-W-EXT-230V-R2
MPD-W-EXT-230V-R3
MPD-W-EXT-230V-R4
MPD-W-EXT-230V-R5

Microwave frequency compatibility
Frequency of operation is different depending on region.
Please select the correct suffix using the table on the rear page

Hand Held Programmers

HHIR-PROG

Infrared Programming Handset
Compact infrared handset used for the basic programming of IR enabled iLight stand alone sensors.
- IR range: 7m
- Dimensions: 86mm x 4mm x 67mm

HHIR-LCD-PROG

Infrared Programming Handset with LCD display
Advanced compact infrared handset used for the operation, configuration and programming of iLight sensors that have the ability to be programmed via IR.
- Readback: to read the settings from a device
- Flash drive spec: 128MB min to 16GB max, FAT/FAT32, single partition drive
- IR transmit range: Low - 8m, medium - 15m and high - 25m
- Dimensions: 94mm x 160mm x 25mm

Accessories

SB-C

SB-C-EX

SB-C-A

SB-C-A-EX

PPAD-C-HB-WALL BRACKET

MPAD-C-A-WALL BRACKET

SB-C
Surface box for PPAD, MPAD (excluding MPAD-C-A)
- Dimensions: 76mm Ø x 65mm Depth

SB-C-EX
Surface box extension for PPAD, MPAD (excluding MPAD-C-A)
- Dimensions: 76mm Ø x 19mm Depth

SB-C-A
Surface box for MPAD-C-A (Adjustable) only
- Dimensions: 85mm Ø x 93mm Depth

SB-C-A-EX
Surface box extension for MPAD-C-A (Adjustable) only
- Dimensions: 85mm Ø x 19mm Depth

PPAD-C-HB-WALL BRACKET
Wall bracket for PPAD-C-HB (High bay sensor)
- Dimensions: 125 x 103 x 63mm

MPAD-C-A-WALL BRACKET
Wall bracket for MPAD-C-A microwave sensors
- Dimensions: 125 x 103 x 63mm

Code Compliance
- Improves BREEAM & LEED scoring for building sustainability.
- Contributes to energy reduction targets under Climate Change Levy (CCL) and Carbon Reduction Commitment (CRC).
- Qualifies for Enhanced Capital Allowance (ECA) applications.
- Delivers lighting control requirements under UK Building Regs - L2a & L2b and BRE: 498.

Achievable Energy Savings
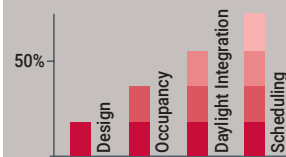
Microwave frequency compatibility (For MPAD-C-A-230V, MPAD-C-A-DALI -230V and MPD-W-EXT-230V Sensors)

Code	Region	Frequency
blank	UK, China, India, Middle East, Malaysia, Hong Kong, Singapore	
-R2	Australia and all of Europe except: UK, France, Portugal, Germany, Switzerland, Austria, Slovak Republic, Republic of Ireland	
-R3	France, Portugal, Switzerland	9.900GHz
-R4	Germany, Austria, Slovak Republic	9.350GHz

UK CA

CE

bsi. ISO 9001:2015 Quality Management
FM 664349

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