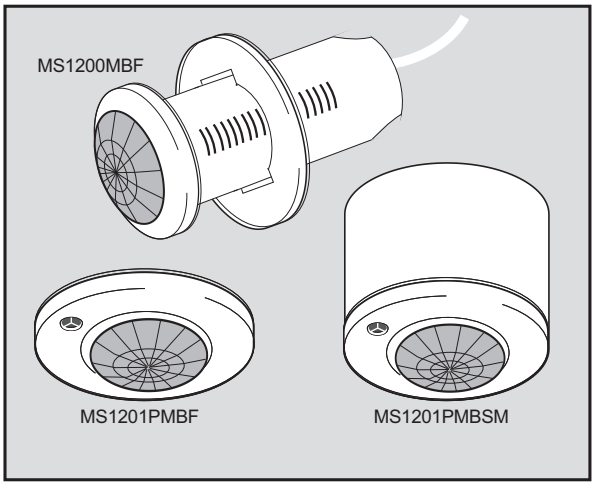
LightSpot - Stand-alone precision lighting control by presence detection and photocell

Mid-Bay LightSpot (Switching)

- Mid-Bay LightSpot offers energy-saving PIR presence detection at heights of up to 12m.
- Ideal for warehouses and industrial units.
- 1 : 1.75 Coverage ratio for optimum precision detection, i.e. 8m mounting height results in a detector footprint of 14m diameter circle.
- Set and adjust the PIR detector to your requirements.
- Easy programming from ground level via infrared programmer.
- Lens mask available for end-of-aisle applications.



Presence detection is by passive infrared, effectively enhanced to improve sensitivity to small movements.

Passive photocell holds lights off in bright ambient conditions. Active photocell has the capability to switch lights off in occupied areas.

Off delay: Period following the last observed movement after which the lights switch off, adjustable via HP2000. (Via HP18, three options only: 5, 10 or 20 mins.)

Detection pattern and range in metres at floor level (detection pattern is cone shaped). Range to mounting height ratio is 1:1.75, i.e. at 8m height, the cone's diameter is 14m at the floor.

Remote programming via HP2000 (or HP18*) ensures changes can be easily accommodated. *HP18 offers different/limited programming options.

Washroom mode. If no movement is detected in a 24-hour period, detector can be programmed to switch the load on for the duration of the off delay.

Programmable Parameters (via HP2000) Please note that HP18 offers different/limited programming options
POWER UP **Options: On/Off** Sets the status of luminaires when power is applied. On - lights power-up on irrespective of occupancy. Off - lights respond to occupancy after 30 seconds. **Pre-set: On**
RESPONSE **Options: Auto/Semi-auto** Auto - lights switch on and off automatically. Semi-auto - lights are switched on by wall-switch or hand-held controller and switch off automatically. **Pre-set: Auto**
OFF DELAY **Options: 1 minute - 96 hours** Sets the period after the last observed movement when the lights switch off. (In walk-test mode, the Off Delay is 10 seconds.) **Pre-set: 20 mins**
24 HOUR CYCLE **Options: Yes/No** For use in 'Washroom Mode' only. Provides hygiene flush if area has been unoccupied for 24 hours. **Pre-set: No**
PHOTOCELL MODE **Options: Active/Passive/Disabled** **Passive** - holds lights off when sufficient natural light. **Active** - lights turn on and off as required when natural light levels fluctuate and area is occupied. **Disabled** - the photocell has no effect. **Pre-set: Passive**
LOWER/UPPER THRESHOLD **0-254** Point at which photocell allows lights to switch on/turns them off in Active mode. **Pre-set: 254**

Ref: D4131B

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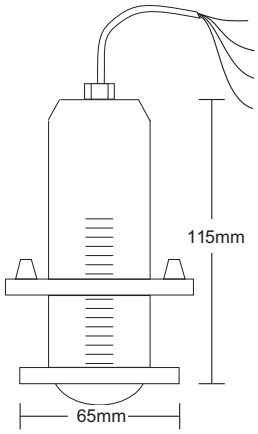
Electrical Connections and Installation Notes

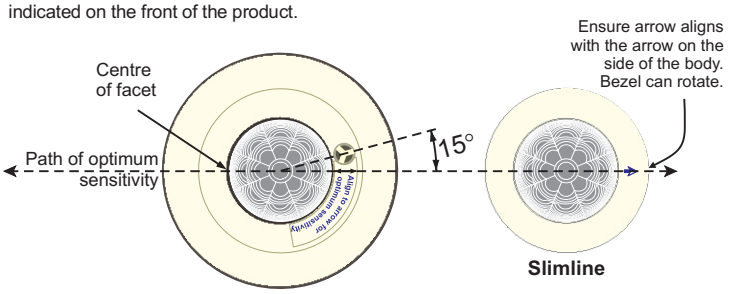
Slimline version



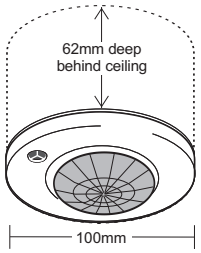
Slimline version: Suitable for flush mounting in a suspended ceiling tile, maximum 54mm thick and with a minimum clearance of 125mm between the front surface of the tile and the hard ceiling behind. The detector should be mounted in the centre of the group of luminaires to be controlled. Cut a 50mm diameter (64mm if using an FR64 flush ring or PB64 plasterboard fixing kit) circular hole in the tile, feed the flying lead and detector through the hole and secure into position with the locking ring.

Note: Minimum mounting pitch (spacing) when utilising the photocell = 0.5 x mounting height.

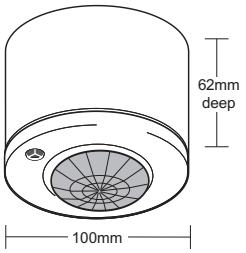
For aisle or corridor applications, there is an optimum orientation for approach, clearly indicated on the front of the product.



Flush version



Surface version

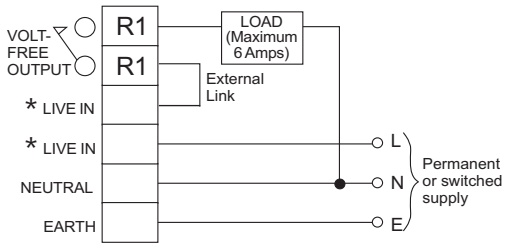


Flush version: Depth required behind ceiling: 62mm from front flange plus allowance for the minimum bend radius of the cable. Sinking box fits into 89mm diameter hole in ceiling tile or plasterboard ceiling. Note: If the sinking box is being fitted to a hard substrate such as metal, increase the hole size to 91mm. No access above the ceiling is necessary. The detector fits into sinking box with a simple bayonet action thus concealing the fixing screws.

Surface version: The housing may be secured to a hard surface or a BESA box. The detector fits into the housing with a simple bayonet action.

MS1201PMB

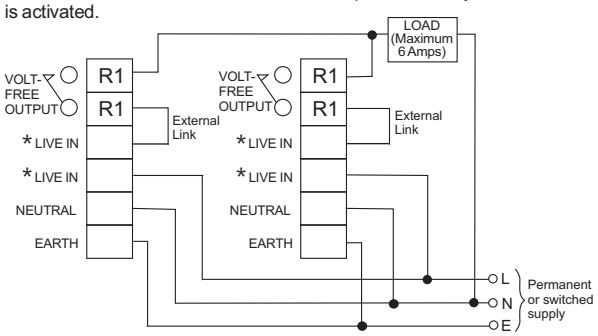
Single Unit



* The Live terminals are internally linked

Multiple Units

Larger areas can be covered by connecting extra units in parallel. The total load current must not exceed 6 Amps in case only one unit is activated.



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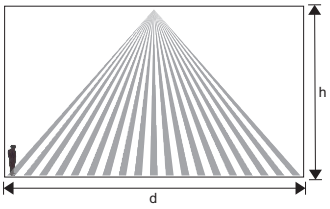
Technical Data

MAXIMUM RECOMMENDED MOUNTING HEIGHT: 12 metres

RANGE: 360° cone-shaped detection pattern
Diameter at floor level (d)
= 1.75 x mounting height (h)



TERMINAL CAPACITY: 2 x 2.5mm^2

MINIMUM MOUNTING PITCH (SPACING): 0.5 x mounting height (when utilising the photocell)

OPERATING VOLTAGE: 230V 50Hz (UK & Europe)

PRODUCT RATING & RECOMMENDED CIRCUIT PROTECTION: 10 Amps

MAXIMUM LOAD: 6 Amps

PHOTOCELL: Adjustable 50-5000 lux via HP2000 or HP18

OFF DELAY: Adjustable: 1 min-96 hours / Disabled (via HP2000);
5, 10 or 20 mins via HP18 - plus 10-second Walk-test Mode

DEPTH REQUIRED BEHIND CEILING: Slimline version - 125mm
Flush version - 62mm from front flange plus allowance for minimum bend radius of cable

WEIGHT: Slimline version - 70g approx (excluding cable)
Flush & Surface versions- 200g approx

COLOUR: White

MATERIAL: Flame retardant PC/ABS

IP RATING: Slimline version - 4X
Flush & Surface versions - 3X

OPERATING TEMPERATURE: 0°C to 40°C

Ancillary Items

HP2000 **HP2000 MLS Digital Programmer:** Menu-driven LCD Programmer with automatic equipment recognition and parameter download facilities.

HP18 **HP18 LightSpot Programmer**
User-friendly override/programming remote controller.
Please note that the HP18 does not give access to the full range of parameters.

MBPIRLM: Lens mask to prevent end-of-aisle movement from being detected.

Part Numbers

MS1200PMBF	Mid-Bay LightSpot with photocell - slimline flush
MS1201PMBF	Mid-Bay LightSpot with photocell - flush
MS1201PMBSM	Mid-Bay LightSpot with photocell - surface
HP2000	MLS Digital Programmer
HP18	LightSpot Programmer
MBPIRLM	Lens Mask

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