

### Technical Data

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

MAXIMUM RECOMMENDED MOUNTING HEIGHT: 5 metres

SWITCH CAPACITY: 10 Amps

Incandescent lamps: 1500W max (at 230V)

TERMINAL CAPACITY: 2 x 1.5mm or 1 x 2.5mm

WEIGHT: 148g

TIME DELAY: 5, 10 or 15 mins

POWER-UP CONDITION: select ON or OFF

DETECTOR RANGE: adjustable - see installation notes

RANGE REDUCTION: adjustable - see installation notes

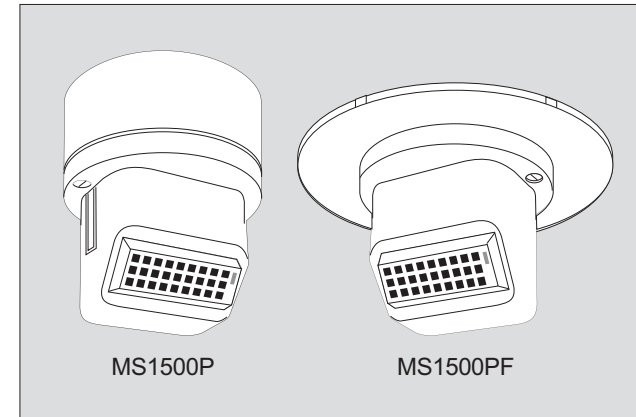
ULTRASONIC FREQUENCY: 40kHz

PHOTOCELL: adjustable 50 to 5000 lux

SEMI-FLUSH FIXING: requires 76mm hole to be drilled in ceiling tile



### Standard Series LightSpot MS1500P & MS1500PF



### Installation and Commissioning Instructions

### Ex-Or

Novar ED&S Limited

Haydock Lane, Haydock, Merseyside WA11 9UJ

Tel: +44 (0)1942 719229

Fax: +44 (0)1942 508753

Email: [technicalsales.ex-or@honeywell.com](mailto:technicalsales.ex-or@honeywell.com)

[www.ex-or.com](http://www.ex-or.com)



At the end of their useful life  
the packaging and product  
should be disposed of via a  
suitable recycling centre.  
Do not dispose of with normal  
household waste.  
Do not burn.



W4006K

## INSTALLATION

The Standard Range LightSpot is a sensitive, ultrasonic movement detector; it is essential therefore that it be installed on a rigid surface that will not itself be subject to movement or vibration.

Fix directly to a rigid surface or use the semi-flush fixing kit to recess into a ceiling tile etc. (For semi-flush fixing, use a hole saw to drill a 76mm hole into the ceiling tile.) Existing light switch can be retained. Use switch wire from switch as LIVE IN. A spare connection has been provided for earth termination.

## WHEN INSTALLING, REMEMBER

- LightSpot is not for use outdoors.
- Range is 10-15 metres for a walking target in a corridor and 5-8 metres for small hand-movements.
- Best performance is achieved at a mounting height of 2-3 metres - in a corner - pointing into the room (max size 6.0m x 6.0m) or one end of a corridor.
- The detector is more sensitive to movement **ALONG** the beam than **ACROSS** it.
- The detector can see behind itself, so it should be positioned a metre or more inside the monitored area - particularly in the case of racking aisles and corridors.
- Ultrasonic detectors are sensitive to all moving objects including air movement. A mounting location should be chosen thoughtfully, particularly where there are fans in the area, e.g. extract fans and computer cooling fans.
- The detector should not be positioned within 25cm of a luminaire.

## COMMISSIONING

Ensure that any heating / ventilation plant which may cause interference is switched ON. Set the PHOTOCELL control fully clockwise, sensitivity controls fully anti-clockwise and the four switches to OFF then follow these simple commissioning instructions. We recommend that the Off Sensitivity is not adjusted unless absolutely necessary and therefore the commissioning procedure is started from Step 2.

### 1. OFF SENSITIVITY

**Reduces the sensitivity to movement when the lights are switched OFF.**

When set fully anti-clockwise, the sensitivity is the same with the lights switched ON and OFF.

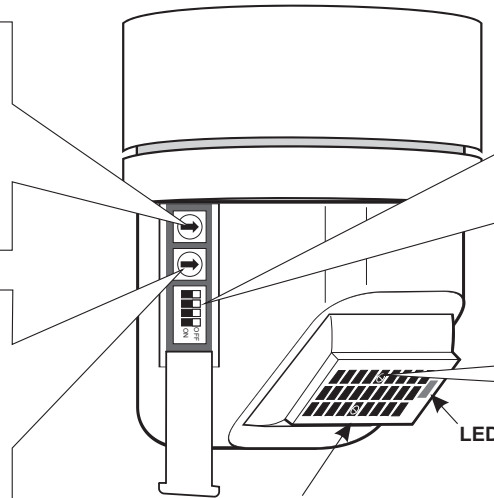
Wait outside the area for the lights to switch OFF. Re-enter the area and check the point at which the lighting switches on again. Increase the setting until the lights are switched on **JUST AT THE POINT OF ENTRY**.

### 2. ON SENSITIVITY

**Sets the sensitivity to movement when the lights are ON.**

Rotate the control clockwise so that the LED flashes in response to typical movements expected at the extremities of the monitored area. Wait to ensure that the lights switch off and that no interference signals are triggering the detector.

**DO NOT TURN TO MAXIMUM.** Always adjust to the lowest setting consistent with reliable performance.

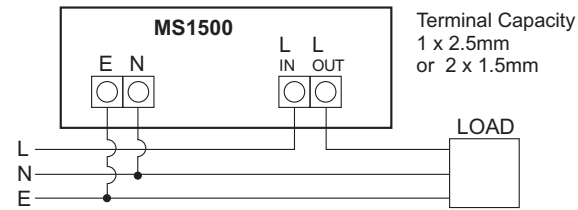


### Coarse Sensitivity Adjustment

Normal setting is anti-clockwise. Turn clockwise to reduce overall sensitivity (required only in special circumstances).

## TECHNICAL/WIRING DETAILS

Switching capacity 10 Amps. Incandescent lamps: 1500W max. For use on 230V ac supplies only.



### Important Additional Notes

1. A means for disconnection must be incorporated in the fixed wiring in accordance with the current wiring regulations.
2. This equipment switches lights no more frequently than would a responsible human occupant. However, manufacturers of some lighting types (e.g. '2D' luminaires) may specify a maximum number of switching cycles in order to achieve a predicted lamp life. Please check with the manufacturer of the luminaires to ensure that they are compatible with automatic controls in this respect.

### 4. OFF DELAY AND POWER-UP CONDITION

**Sets the time delay following the last observed movement after which the lights switch OFF.**

	ON	OFF	
1	Power-up ON	Power-up OFF	
2	Semi-auto	Auto	
3	5 min delay	Zero delay	Add switches together to select 15 minutes
4	10 min delay	Zero delay	

With 3 and 4 in the OFF position, the delay time is 5 seconds which must only be used for setting up purposes. In semi-automatic mode the lights are switched ON by switching the wall-switch OFF then ON.

**NOTE:** In semi-automatic mode, Power-up ON must be selected, i.e. Switch 1 must be ON.

### 3. PHOTOCELL

**Prevents lights being switched ON when there is adequate daylight.**

Commission for movement before adjusting the photocell. Anti-clockwise adjustment makes the photocell more active so that lights will be held OFF until it is darker. A mid setting is generally suitable. The photocell may be overridden by switching the normal light switch OFF then ON. The lights will come ON if Power-up ON is selected, i.e. Switch 1 is ON.

## SENSITIVITY CONTROLS

**ON Sensitivity - Sets sensitivity to movement when lights are switched on**

This is the normal sensitivity adjustment expected on any detector. Choose a setting as low as practical. (ON Sensitivity set to maximum will result in lights staying on permanently.)

**OFF Sensitivity - Sets sensitivity to movement when lights have switched off**

This additional sensitivity adjustment is useful in storage aisles, open plan areas etc. It enables a reduced sensitivity to be set for when an area is empty, so that fringe activity will not switch on the lights.

When fully clockwise, a very large movement is needed to switch on the lights whilst a much smaller movement (set by ON Sensitivity) will sustain them. In enclosed rooms or corridors, this control may be left in the fully anti-clockwise position when the sensitivity will remain the same whether the lights are ON or OFF. The change takes 5 seconds after the lights have switched off to establish fully.