

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

# Mid Range Series LightSpot

Mid Range LightSpot is a high-performance, directional presence detector with built-in photocell for use in almost any internal space. With a range of up to 20m by 20m, it is ideal for larger classrooms, conference rooms, longer storage aisles etc. It is a self-contained unit, making installation simple and straightforward.

Mid Range LightSpot offers the following features:



Active presence detection by microwave technology.



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.



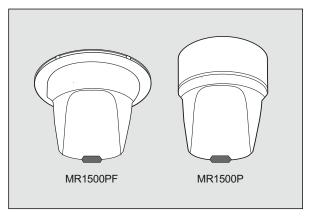
Detection pattern and range in metres under normal operating conditions.



Hand-held Controllers provide local user override.



Remote programming with the QUICKSET PRO or HP2000 (operate at 5m range) ensures changes can be easily accommodated.



## **Programmable Parameters**

Sensors will operate to the factory default settings (as shown below) unless customised by using an infrared programmer.

## **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 15 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

1 minute - 96 hours

Sets the period after the last observed movement when the lights switch off. (A set-up time of 10 seconds is provided to Pre-set - 20 mins assist rapid commissioning.)

## **ON SENSITIVITY**

Options: 0-100

Sensitivity required while area is occupied (i.e. lights on).

Pre-set - 20

## OFF SENSITIVITY Options: 100-10% in 10% increments

Sets the sensitivity once lights have been switched off as in some instances a lower setting may be required, e.g. a library or storage aisle which requires a higher sensitivity when the aisle is occupied but a lower one when the area becomes unoccupied so that passing traffic across the ends of an aisle will not activate the lights. Pre-set - 100%

Options: Active/Passive/Disabled **PHOTOCELL** 

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 - Disabled

**SET-POINT LOW/HIGH** 

Options: 0-1023

The photocell set-points can be programmed between

1 (darkest) and 1023 (brightest). Pre-set - Low 409, High 512

Please check www.ex-or.com to ensure this is the most recent issue - Ref: D4138A

## **Electrical Connections** Volt-Free Operation Live-Out Operation linked) Live In **\_**1 ∞ କ୍ଲ Live In \_∞ Live In പ ive Live In o Live Mains Mains Neutral • Z 9 Neutral Neutral Supply Neutral Supply -|1⋅10 Farth o Earth Earth 0•6 VOLT- ▽ ( ) VOLT- ♥ ( 0.24 SWITCHED LOAD Volt-Free Contacts OUTPUT 0 • • 10 Amps Maximum OUTPUT •2° No Connection No Connection No Connection No Connection

Always check product label before wiring

Note: A means of disconnection must be incorporated into the fixed wiring in accordance with the current wiring regulations.

Mid Range LightSpot should be connected in accordance with the diagrams above. It is designed to control a switched load of up to 10 Amps. When switching via the relay output, multiple MR1500Ps' relay outputs may be connected in parallel provided the controlled load does not exceed 10 Amps.

# Pimensions Rear View Ancillary Items



QUICKSET PRO Digital 2-Way Programmer Menu-driven LCD Programmer with automatic equipment recognition and parameter download facilities.



# HP2000 MLS Programmer

Menu-driven LCD Programmer with automatic equipment recognition and parameter download facilities.



**HC5A Universal Hand-held Controller** 

## Installation

## Surface version (MR1500P)

The back-box can be secured directly to a hard surface or to a conduit stop

## Semi-flush version (MR1500PF)

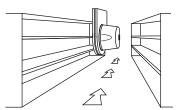
Use a hole saw to drill a 76mm hole into the ceiling tile. The flush ring is designed to clamp the tile between its two halves.

Note: For wall mounting, use the WMK Examples of MR1500P and WMK application:



## Horizontal installation

For general applications where ceiling mounting is not convenient and wide angle coverage in the horizontal plane is desirable. The WMK can be screwed to a hard surface or the lid of a conduit stop-end box.



## Vertical installation

Use this method of mounting for racking aisle applications and where adjustment in the vertical plane will give improved control over the precise point of entry detection.

## **Technical Data**

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

SWITCH CAPACITY: 10 Amps max any lighting load except incandescent

lamps: 1500W max (at 230V~)

MAXIMUM RECOMMENDED MOUNTING HEIGHT: 3.5m

RANGE: Adjustable up to 20m

OFF DELAY: 1 min - 96 hours plus 10-second walk-test mode PHOTOCELL: Passive/Active/Disabled adjustable 50-5000 lux

MATERIAL: Flame retardant PC/ABS

COLOUR: White WEIGHT: 160g IP RATING: 4X

OPERATING TEMPERATURE: 0°C to 40°C

Ex-Or operates a genuine policy of continuous improvement. You may expect the specification to be regularly enhanced. For latest technical information, please visit www.ex-or.com

## **Part Numbers**

MR1500PMid Range LightSpot with photocell - surface mountedMR1500PFMid Range LightSpot with photocell - semi-flush mounted

QUICKSET PRO Digital 2-way Programming Tool HP2000 MLS Digital Programmer

HC5A Ten-button Universal Hand-held Controller c/w wall bracket

WMK Wall-mounting Kit
MRFK Semi-flush Mounting Kit