

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

Gold Series LightSpot for use with Analogue 1-10V Ballasts

The Gold Series LightSpot for use with Analogue 1-10V Ballasts is part of a comprehensive range of presence detectors designed to control modular luminaires with high frequency ballasts and other lighting loads.

It offers superior-performance, programmable presence detection for lighting control in offices and open-plan workstations. The use of microwave presence detection technology enables the range to be adjusted to ensure a tailored detection pattern to suit any application. Versions are available for flush and surface mounting.

The Gold Series LightSpot for use with Analogue 1-10V Ballasts offers the following features:



Active presence detection by microwave technology.



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



Regulating photocell actively monitors ambient light levels and adjusts the light output accordingly (dimmable control gear only).



Incorporates simple scene-setting - up to six scenes can be set via user remote.



Off delay: Period following the last observed movement after which the lights switch off.



Detection pattern and range in metres under normal operating conditions.



1-10V Analogue output always influenced by photocell. Relay output always controlled by the presence detector and can also be influenced by photocell, if so configured.



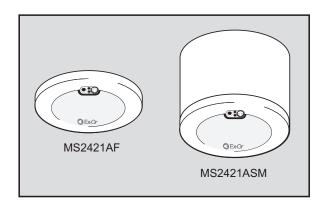
Hand-held Controllers (HC5 and HC6) provide local user override.



Remote programming with the HP2000 Handheld Infrared Programmer ensures changes can be easily accommodated.



OneSwitch Dimming. Manual input to adjust light level or turn luminaires on or off.



Scene-setting

When used with dimmable Analogue 1-10V ballasts, users can set up to six lighting scenes by infrared remote control and recall them with the single press of a button.

Entry and Exit Scenes

The entry scene is automatically selected when the area becomes occupied. Similarly, there is an option to select an Exit Scene for when an area is vacated.

Ballast Compatibility

The MS2421A Detector is fully compatible with dimmable Analogue 1-10V ballasts (1-10V control signal plus relay power switching). It may alternatively be used to switch fixed-output high-frequency ballasts or other lighting loads.

Local Overrides

Manual control of coordinated analogue and relay outputs with OneSwitch switching/dimming or by hand-held controller.

Commissioning and Programmable Parameters

The operation of the MS2421A Detector is determined by how the unit is commissioned. Commissioning and recommissioning is carried out using a menu-driven, infrared remote programmer (HP2000) without inconveniencing the the building's occupants.

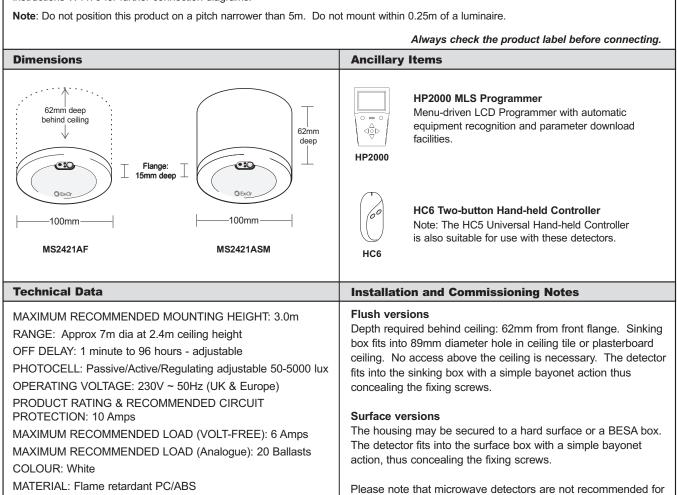
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Wiring Diagram MS2421AF & MS2421ASM 1-10V { + Analogue Output Analogue Ballas (MAX 6 AMPS) VOLT-FRFF 1-10V Output 0 0 0 0 LIVE NC Permanent or switched NEUTRAL supply EARTH ONESWITCH DIMMING Momentary push-to-make . switch

Relay outputs may be connected together in parallel to cover larger areas. The total load on all combined relay outputs must not, however, exceed 6 Amps as only one relay may be closed at a given moment.

Analogue outputs MUST NOT be connected in parallel.

The diagram above shows a unit exercising full ON/OFF and dimming control over an Analogue 1-10V Dimming Load. In a simpler application, controlling a non-dimmable load, just the mains supply and volt-free connections would be required. Please see installation instructions W4475 for further connection diagrams.



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applications where there are large surface areas of metal, e.g. metal ceiling or floor tiles, as unpredictable sensitivity may result.

Part Numbers

WEIGHT: 300g

IP RATING: 2X

MS2421AF Gold Series LightSpot with photocell for Analogue 1-10V ballasts - flush mount

MS2421ASM Gold Series LightSpot with photocell for Analogue 1-10V ballasts - surface mount

HP2000 MLS Digital Programmer

HC6 Two-button Hand-held Controller c/w wall bracket
HC5 Universal Hand-held Controller c/w wall bracket