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

Integral Luminaire Controllers

LightSpot Luminaire Controllers are high-performance presence detectors with photocells for integration within luminaires and infill panels. There are two types of controller: the single unit MS1200D/DALI and the two-part MSM2000D/DALI/A control module with DHW/S mini detector head (only the ultra discreet detector head is visible).

Ballast Compatibility

LightSpot Luminaire Controllers are available for DSI/DALI ballasts or Analogue 1-10V and fixed-output electronic high-frequency ballasts.

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

Regulating photocell ensures a minimum maintained light level, taking account of the contribution from adjacent luminaires and daylight

Passive photocell holds lights off in bright ambient conditions. The choice of regulating, passive or none is available via HP2000 on Analogue version.

Off delay: Period following the last observed movement after which the lights switch off (via HP2000 - options differ on other Programmers).

Detection pattern and approximate range in metres at floor level for 2.5m mounting height (detection pattern is cone shaped).

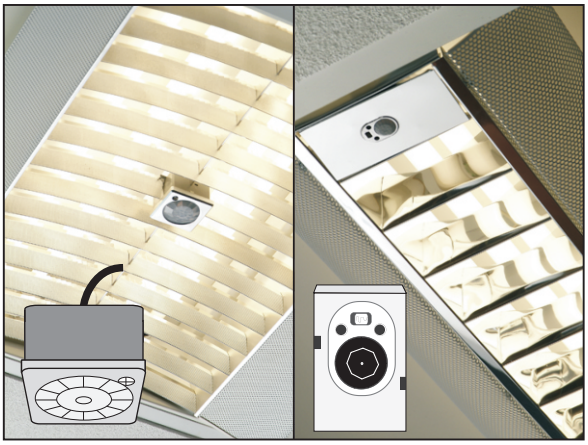
Incorporates simple scene-setting - up to six scenes can be set or recalled via user remote.

Hand Controller provides local user override.

Remote programming ensures changes can be easily accommodated. Please see individual detector instructions for programmer compatibility.

OneSwitch Dimming. Manual input to adjust light level or turn luminaires on or off. Available on Two-part Controllers.

100-hour Burn-in. Inhibits dimming functions to allow new lamps to burn in. Available on MS1200D/DALI Single-unit Controllers.



Ancillary Items

HP2000 MLS Digital Programmer

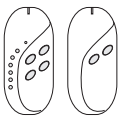
Menu-driven LCD Programmer with automatic equipment recognition and parameter download facilities.

HP10 LightSpot Programmer

Infrared programming tool with 12 dil switches for the setting of individual parameters.

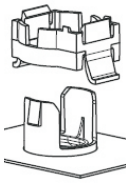
HP18 LightSpot Programmer

User-friendly override/programming remote controller. Note: HP18 is not compatible with analogue detectors.



HC5 Universal Hand-held Controller

HC6 Two-button Hand-held Controller



DHFK Flush-mounting Kit for Mini Detector Head

Allows for installation via a 30mm hole in the panel. Available in black, silver or white.

Please check www.ex-or.com to ensure this is the most recent issue - Ref: D4069H

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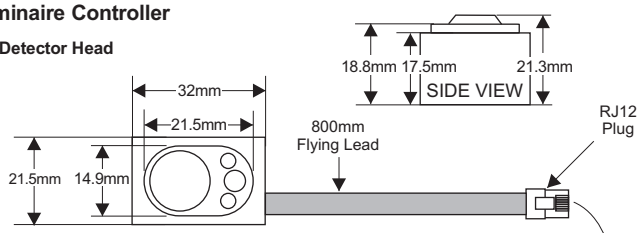
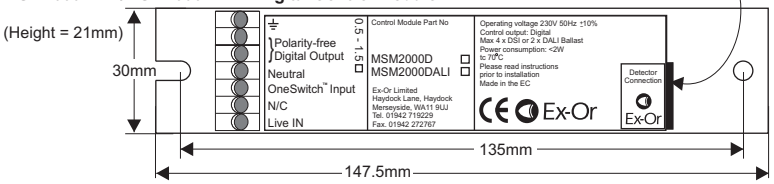
Electrical Connections

Two-part Luminaire Controller

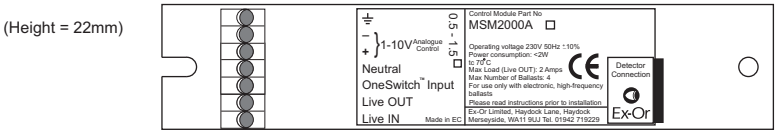
DHW/DHS Mini Detector Head



MSM2000DALI/MSM2000D mkII Digital Control Module

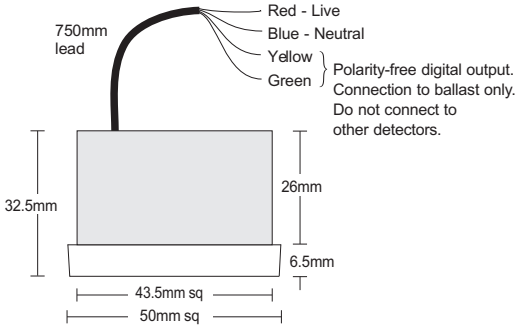


MSM2000A Analogue 1-10V Control Module



Single-unit Luminaire Controller

For DSI ballasts: MS1200DIS & MS1200DIW
For DALI ballasts: MS1200DALIS & MS1200DALIW



NB: Always check product label before connecting.

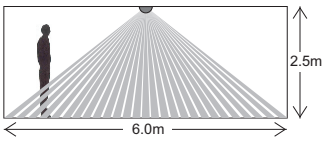
Programmable Parameters	Selectable Options (Factory pre-set shown in bold)
Power up	**On** / Off
Response	**Auto** / Semi-Auto
Off Delay	5-35 mins / 10-sec Walk-test via HP10
	1 min to 96 hrs / Disabled / 10-sec Walk-test via HP2000
	5, 10, 20 mins / 10-sec Walk-test via HP18 **20 mins**
On Sensitivity*	0-100 **100**
Start lamps	**Max** / Min
Entry Scene	Select Scenes 1 - 6. **Scene 1**
Bright-out	Yes / **No**
Dimming	Reg 100-50% **Reg 100%** Sets the regulating range of the ballast in daylight conditions, i.e. at 100% the ballast can regulate over its full range, at 70% the ballast will not dim below 30% output. Manual override is not affected. Manual override is not affected.
Lamp Max*	10%-100% **100%**
Fade to Off	Yes / **No**
When Vacant	**Switch Off after Off Delay**
	Go to Minimum } and do not switch off
	Regulate up to 25% } for 3 hours then switch off
	Go to Scene 6 } until building is vacated then switch off
Photocell†	**Regulating** / Passive / None See 'Dimming' above for details of regulating range.
Threshold	0-254 In Passive photocell mode, this number represents the light level below which lights will be triggered when occupancy is detected
Set-Point High*	0-1023 Aiming point as photocell adjusts ballast output. **1023**
Set-Point Low*	0-1023 Level above which photocell switches its output off (only if Bright-out = Yes). **1023**
Additional feature accessible under Utilities on HP2000:	
100-hr Burn-in*	Inhibits dimming functions during burning-in of new lamps. **0hr**

NOTE: The parameters differ slightly between products.
† Denotes parameters for Analogue version only.
* These parameters are available on Single-unit Luminaire Controller only.

Technical Data

All types:

MAXIMUM RECOMMENDED MOUNTING HEIGHT: 3.0m
RANGE: Cone-shaped detection pattern,
diameter (at floor level) =
2.4 x mounting height



OPERATING VOLTAGE: 230V 50Hz (UK & Europe)
COLOUR: White or silver bezel
OPERATING TEMPERATURE: 0°C to 55°C

Single-unit Controller MS1200DIS/W & MS1200DALIS/W:

CAPACITY: DSI Digital - 4 ballasts max
DALI - 1 ballast max
MATERIAL: Flame retardant PC/ABS
IP RATING: 4X
WEIGHT: 50g

Two-part Controller MSM2000D/DALI/A:

CAPACITY: DSI Digital - 4 ballasts max
DALI - 2 ballasts max
Analogue 1-10V & Fixed-output - Total load must not exceed 2 Amps, up to 4 ballasts max - electronic, high-frequency ballasts ONLY
INTERCONNECT CABLE TEMPERATURE RATING: 60°C
MATERIAL: Detector Head - UV stabilised polycarbonate
Control Module - Flame retardant PC/ABS
IP RATING: 20
WEIGHT: Detector Head - 32g
Control Module - 48g

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

MSM2000D	Control Module for DSI ballasts
MSM2000DALI	Control Module for DALI ballasts
MSM2000A	Control Module for Analogue 1-10V and Fixed-output ballasts
DHW	Mini Head - white bezel
DHS	Mini Head - silver bezel
DHFK-W	Flush-mounting Kit for Mini Detector Head - white
DHFK-S	Flush-mounting Kit for Mini Detector Head - silver
DHFK-B	Flush-mounting Kit for Mini Detector Head - black
MS1200DIS	Single-unit Controller for DSI ballasts - silver bezel
MS1200DIW	Single-unit Controller for DSI ballasts - white bezel
MS1200DALIS	Single-unit Controller for DALI ballasts - silver bezel
MS1200DALIW	Single-unit Controller for DALI ballasts - white bezel
HP2000	MLS Digital Programmer
HP10	LightSpot Programmer
HP18	LightSpot Programmer
HC5	Universal Hand-held Controller c/w wall bracket
HC6	Two-button Hand-held Controller c/w wall bracket