

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 QuickSet Pro on Analogue version.



Off delay: Period following the last observed movement after which the lights switch off (via QuickSet Pro - options differ on HP18).



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-held Controller provides local user override.



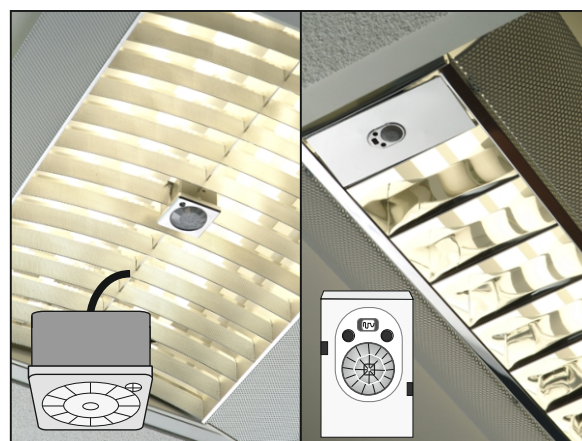
Remote programming ensures changes can be easily accommodated. Please see individual detector instructions for programmer compatibility.



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



QuickSet Pro Digital 2-way Programming Tool

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



HP18 LightSpot Programmer

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



HC5A Universal Hand-held Controller

Allows manual override. Supplied with wall bracket.



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: D4069M

Electrical Connections			
<div><div><div>Two-part Luminaire Controller</div><div>DHW/DHS Mini Detector Head</div><div><div>32mm</div><div>21.5mm</div><div>14.9mm</div><div>800mm Flying Lead</div><div>18.8mm</div><div>17.5mm</div><div>21.3mm</div><div>SIDE VIEW</div></div><div><div>MSM2000DALI/MSM2000D Digital Control Module</div><div>(Height = 21mm)</div><div><div>30mm</div><div>147.5mm</div><div>135mm</div><div>0.5 - 1.0</div><div>Control Module Part No</div><div>MSM2000D</div><div>MSM2000DALI</div><div>Operating voltage 230V 50Hz ±10%</div><div>Control output: Digital</div><div>Max 4 x (DSI or DALI) Ballast</div><div>Power consumption: <2W</div><div>tC: 10°C</div><div>Please read instructions prior to installation</div><div>Made in the EC</div><div>CE</div><div>Ex-Or</div><div>Detector Connection</div><div>Ex-Or</div></div></div><div><div>MSM2000A Analogue 1-10V Control Module</div><div>(Height = 22mm)</div><div><div>22mm</div><div>147.5mm</div><div>135mm</div><div>0.5 - 1.5</div><div>Control Module Part No</div><div>MSM2000A</div><div>Operating voltage 230V 50Hz ±10%</div><div>Control output: Analogue</div><div>Max 4 x (DSI or DALI) Ballast</div><div>Power consumption: <2W</div><div>tC: 10°C</div><div>Max Load (Live OUT): 2 Amps</div><div>Max Number of Ballasts: 4</div><div>For use only with electronic, high-frequency ballasts</div><div>Please read instructions prior to installation</div><div>Made in EC</div><div>CE</div><div>Ex-Or</div><div>Detector Connection</div><div>Ex-Or</div></div></div></div><div><div>Single-unit Luminaire Controller</div><div>For DSI ballasts: MS1200DIS & MS1200DIW</div><div>For DALI ballasts: MS1200DALIS & MS1200DALIW</div><div><div>750mm lead</div><div>32.5mm</div><div>26mm</div><div>6.5mm</div><div>43.5mm sq</div><div>50mm sq</div><div>Red - Live</div><div>Blue - Neutral</div><div>Yellow</div><div>Green</div><div>Polarity-free digital output. Connection to ballast only. Do not connect to other detectors.</div></div><div>NB: Always check product label before connecting.</div></div></div>			
Programmable Parameters	Selectable Options (Factory pre-set shown in bold)	Technical Data	
Power up	On / Off	<div>All types:</div> <div>MAXIMUM RECOMMENDED MOUNTING HEIGHT: 3.0m</div> <div>RANGE: Cone-shaped detection pattern, diameter (at floor level) = 2.4 x mounting height</div> <div><div>2.5m</div><div>6.0m</div></div> <div>OPERATING VOLTAGE: 230V 50Hz (UK & Europe)</div> <div>COLOUR: White (RAL9010) or silver bezel</div> <div>OPERATING TEMPERATURE: 0°C to 55°C</div>	
Response	Auto / Semi-Auto		
Off Delay	1 min-96 hrs / Disabled / 10-sec Walk-test via QuickSet Pro 5, 10, 20 mins / 10-sec Walk-test via Hp18		
On Sensitivity*	20 mins		
Start lamps	0-100 100		
Entry Scene	Max / Min		
Bright-out	Select Scenes 1 - 6. Scene 1		
Dimming	Yes / No 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.		
Lamp Max*	Manual override is not affected.		
Fade to Off	10%-100% 100%		
When Vacant	Yes / No	<div>Single-unit Controller MS1200DIS/W & MS1200DALIS/W:</div> <div>CAPACITY: DSI Digital - 4 ballasts max DALI - 1 ballast max</div> <div>MATERIAL: Flame retardant PC/ABS</div> <div>IP RATING: 4X</div> <div>WEIGHT: 51g incl. 0.8m cable</div> <div> </div> <div>Two-part Controller MSM2000D/DALI/A:</div> <div>CAPACITY: DSI Digital - 4 ballasts max DALI - 4 ballasts max Analogue 1-10V & Fixed-output - Total load must not exceed 2 Amps, up to 4 ballasts max - electronic, high-frequency ballasts ONLY</div> <div>INTERCONNECT CABLE TEMPERATURE RATING: 60°C</div> <div>MATERIAL: Detector Head - UV stabilised polycarbonate Control Module - Flame retardant PC/ABS</div> <div>IP RATING: 20</div> <div>WEIGHT: Detector Head - 32g incl. 0.8m cable Control Module - 48g</div>	
Photocell†	Switch Off after Off Delay		
	Go to Minimum		} and do not switch off for 3 hours then switch off until building is vacated then switch off
	Regulate up to 25%		
	Go to Scene 6		
Regulating / Passive / None			
Threshold	See 'Dimming' above for details of regulating range. 0-254 In Passive photocell mode, this number represents the light		
Set-Point High*	level below which lights will be triggered when occupancy is detected		
Set-Point Low*	0-1023 Aiming point as photocell adjusts ballast output. 1023 0-1023 Level above which photocell switches its output off (only if Bright-out = Yes). 1023		
Additional feature accessible under Utilities on QuickSet Pro:			
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.			