

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

## BattenFit Sensor - IP65

The BattenFit Sensor is a simple-to-fit control solution for batten-style luminaires. With the IP65-rated models, outdoor as well as wet and wash-down areas can benefit from the energy savings BattenFit offers. Switching (with photocell option), or regulating for digital DSI or DALI ballasts, versions are available.

The range offers the following features (dependent on model):



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



Passive photocell holds lights off in bright ambient conditions. Active photocell has the capability to switch lights off in occupied areas. (MSB1000PT)



Regulating photocell ensures a minimum maintained light level, taking account of the contribution from adjacent luminaires and daylight. (MSB1001DT/MSB1001DALIT)



Off delay: Period following the last observed movement after which the lights switch off. Options differ with HP18. (Fixed on MSB1001T.)



Detection pattern and approx 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 via user remote. (MSB1001DT/MSB1001DALIT)



Hand-held Controller provides local user override.



Remote programming ensures changes can be easily accommodated.



100-hour Burn-in. Inhibits dimming functions to allow new lamps to burn in. (Available on DSI/DALI version detectors, via QuickSet Pro only.)



### Ancillary Items



**QuickSet Pro Digital 2-way Programming Tool**  
Menu-driven LCD Programmer with automatic equipment recognition and parameter download facilities.



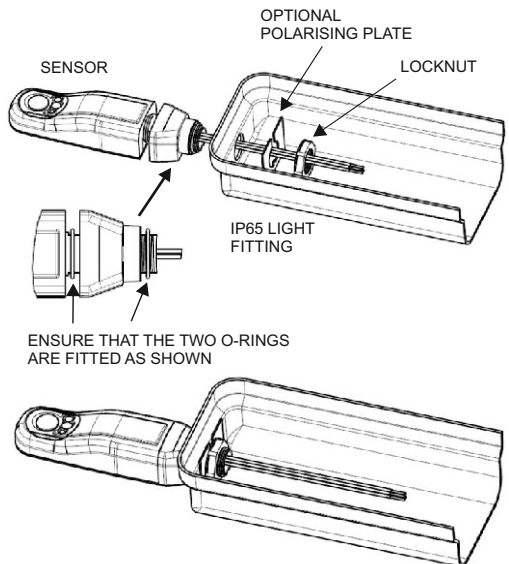
**HP18 LightSpot Programmer**  
User-friendly override/programming remote controller.

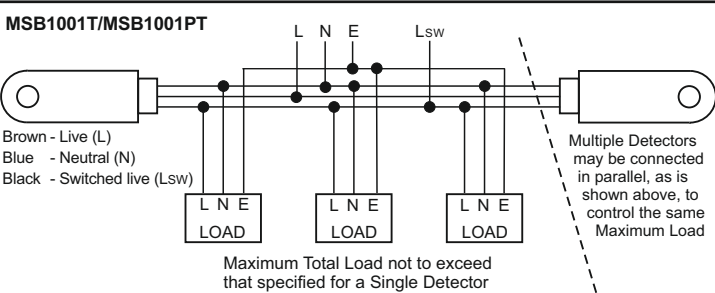
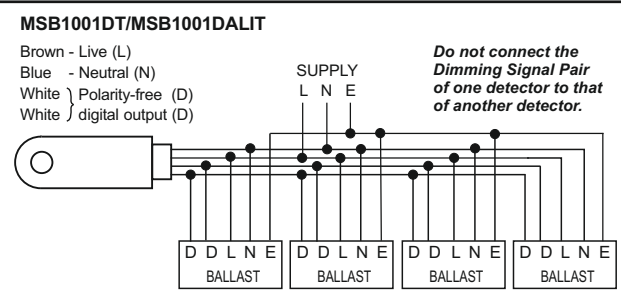
*Please note that the HP18 does not give access to the full range of parameters/options.*

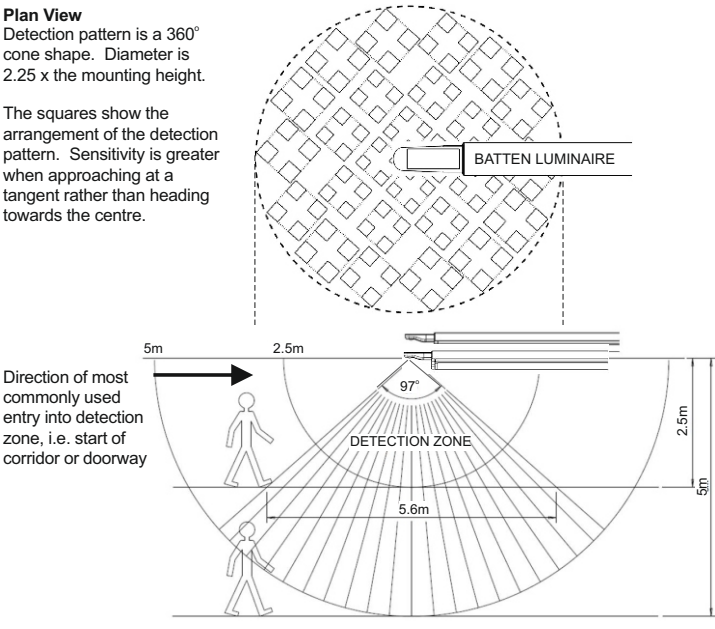
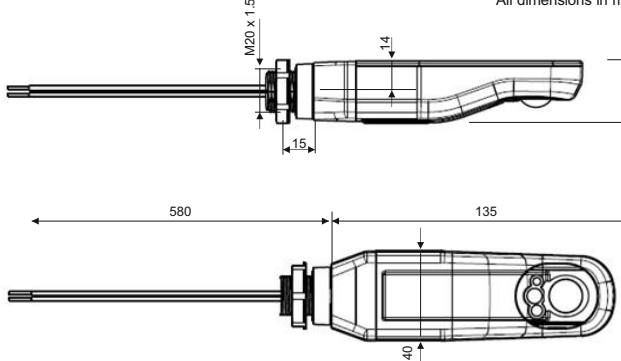


**HC5A Universal Hand-held Controller**

Please check [www.ex-or.com](http://www.ex-or.com) to ensure this is the most recent issue - Ref: D4124J

Assembly/Installation		Programmable Parameters				Selectable Options (Factory pre-set shown in bold)	
						These parameters may be re-programmed any number of times and all settings will be retained in the event of a power loss. Options via QuickSet Pro shown. These differ via HP18.	
		MSB1001T	MSB1001PT	MSB1001DT/ MSB1001DALIT			
Power up	Parameters are fixed at defaults	✓	✓	✓	On / Off		
Response		✓	✓	✓	Auto / Semi-Auto		
Off Delay		✓	✓	✓	1 min-96 hrs plus 10-second walk test. <b>20 mins</b>		
24 Hour Cycle		✓	✓	✓	Off / On		
Start Lamps			✓	✓	Max / Min		
Entry Scene			✓	✓	Select Scenes 1 - 6. <b>Scene 1</b>		
Bright-out			✓	✓	Yes / No		
Dimming			✓	✓	Reg 100-50% 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. <b>Reg 100%</b>		
Lamp Max			✓	✓	10-100% (10-50% in 5% increments; 50%+ in 10% increments) <b>100%</b>		
Fade to Off			✓	✓	Yes / No		
When Vacant			✓	✓	<b>Switch off after Off Delay</b>		
			✓	✓	Go to Minimum and do not switch off		
			✓	✓	Go to Minimum for 3 x Off Delay (XTN), then switch off		
			✓	✓	Regulate up to 25% } and do not switch off		
			✓	✓	Go to Scene 6 } -OR- for 3 x Off Delay (XTN)		
Photocell Mode		✓	✓	✓	Passive / Active / Disabled		
Lower Threshold		✓	✓	✓	0-254 Point where photocell turns lights on in Active Mode <b>254</b>		
Upper Threshold		✓	✓	✓	0-254 Point where photocell turns lights off in Active Mode <b>254</b>		
Additional feature accessible under Utilities on QuickSet Pro:							
100 Hour Burn-in			✓	✓	Burn-in 100 hrs / Cancel / Resume See Applic Note: AN4028 <b>0 hrs</b>		

Electrical Connections	
<b>MSB1001T/MSB1001PT</b>  <p>Brown - Live (L) Blue - Neutral (N) Black - Switched live (Lsw)</p> <p>Maximum Total Load not to exceed that specified for a Single Detector</p>	
<b>MSB1001DT/MSB1001DALIT</b>  <p>Brown - Live (L) Blue - Neutral (N) White - Polarity-free (D) White - digital output (D)</p> <p>See 'Technical Data' for maximum number of ballasts</p>	

Detection Profile	Technical Data
<p><b>Plan View</b> Detection pattern is a 360° cone shape. Diameter is 2.25 x the mounting height.</p> <p>The squares show the arrangement of the detection pattern. Sensitivity is greater when approaching at a tangent rather than heading towards the centre.</p>  <p><b>Direction of most commonly used entry into detection zone, i.e. start of corridor or doorway</b></p> <p><b>BATTEN LUMINAIRE</b></p>	<p>All dimensions in mm</p>  <p><b>MAXIMUM RECOMMENDED MOUNTING HEIGHT: 5 metres</b>  <b>OPERATING VOLTAGE: 230V~ 50Hz (UK &amp; Europe)</b>  <b>POWER CONSUMPTION: &lt;0.5W</b>  <b>CAPACITY: MSB1001DT - 4 x DSI ballasts</b>  <b>MSB1001DALIT - 4 x DALI ballasts</b>  <b>MSB1001T/PT - 2A Switching (max 4)</b>  <b>WEIGHT: 120g</b>  <b>COLOUR: White (RAL9010)</b>  <b>MATERIAL: Flame retardant PC</b>  <b>IP RATING: 65</b>  <b>OPERATING TEMPERATURE: 0°C to 40°C</b></p>

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

#### Part Numbers

<b>MSB1001T</b>	IP65-rated BattenFit Sensor: 2A Switching
<b>MSB1001PT</b>	IP65-rated BattenFit Sensor: 2A Switching with Photocell
<b>MSB1001DT</b>	IP65-rated BattenFit Sensor with Regulating Photocell for DSI ballasts
<b>MSB1001DALIT</b>	IP65-rated BattenFit Sensor with Regulating Photocell for DALI ballast

<b>QUICKSET PRO</b>	QuickSet Pro Digital 2-Way Programmer
<b>HP18</b>	LightSpot Programmer
<b>HC5A</b>	Universal Hand-held Controller c/w wall bracket