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.

P/A Passive photocell holds lights off in bright ambient conditions. Active photocell has the capability to switch lights off in occupied areas. (MSB1001PT)

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

1 min-96 hrs Off delay: Period following the last observed movement after which the lights switch off. Options differ with HP10/HP18. (Fixed on MSB1001T.)

6m Detection pattern and approx range in metres at floor level for 2.5m mounting height (detection pattern is cone shaped).

SS Incorporates simple scene-setting - up to six scenes can be set via user remote. (MSB1001DT/MSB1001DALIT)
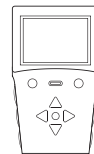
Hand Controller provides local user override.

Remote programming ensures changes can be easily accommodated.
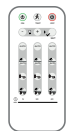
LDA A DECADE OF DESIGN WINNER

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.

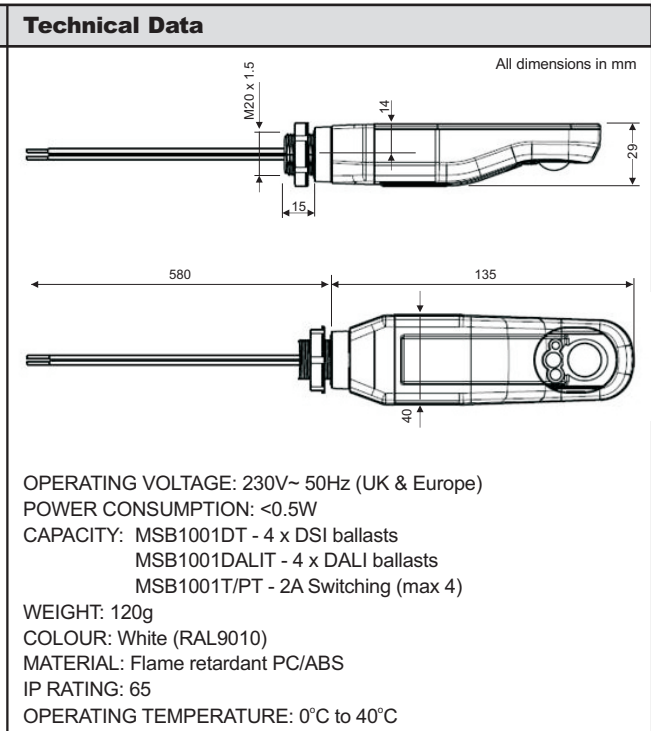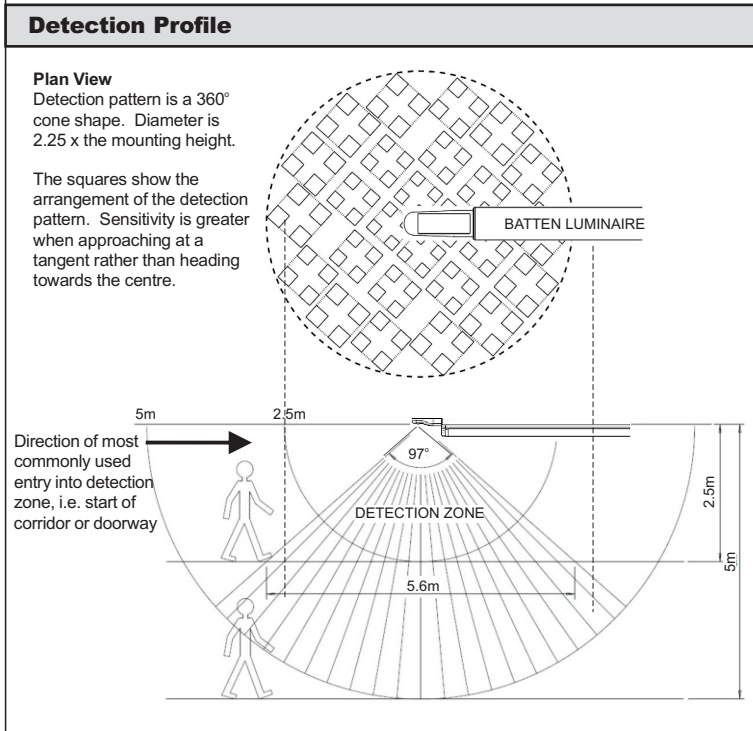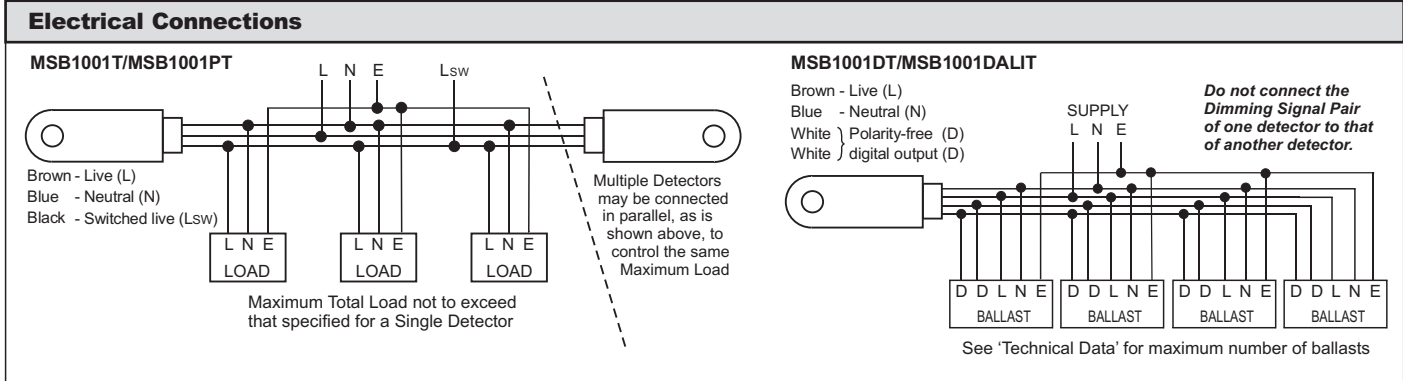*Please note that the HP10 and HP18 do not give access to the full range of parameters/options.*

HC5 Universal Hand-held Controller

HC6 Two-button Hand-held Controller

HC5   HC6

Please check www.ex-or.com to ensure this is the most recent issue - Ref: D4124D

Assembly/Installation

SENSOR · OPTIONAL POLARISING PLATE · LOCKNUT · IP65 LIGHT FITTING

ENSURE THAT THE TWO O-RINGS ARE FITTED AS SHOWN

Polarising Plate (not supplied)
A polarising plate can be made in order to prevent rotation of the sensor during transport or installation. Please refer to installation instructions for details on how to produce.

Programmable Parameters	MSB1001T	MSB1001PT	MSB1001DT/ MSB1001DALIT	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 HP2000 shown. These differ via HP10/HP18.
Power up	F	✓	✓	**On** / Off
Response	F	✓	✓	**Auto** / Semi-Auto
Off Delay	F	✓	✓	1 min-96 hrs plus 10-second walk test. **20 mins**
24 Hour Cycle		✓		**Off** / On
Start Lamps			✓	**Max** / Min
Entry Scene			✓	Select Scenes 1 - 6. **Scene 1**
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. **Reg 100%**
Lamp Max			✓	10-100% (10-50% in 5% increments; 50%+ in10% increments) **100%**
Fade to Off			✓	Yes / **No**
When Vacant			✓	**Switch off after Off Delay**
			✓	Go to Minimum and do not switch off
			✓	Go to Minimum for 3 x Off Delay (XTN), then switch off
			✓	Regulate up to 25% } OR and do not switch off
			✓	Go to Scene 6 } for 3 x Off Delay (XTN)
Photocell Mode		✓		**Passive** / Active / Disabled
Lower Threshold		✓		0-254 Point where photocell turns lights on in Active Mode **254**
Upper Threshold		✓		0-254 Point where photocell turns lights off in Active Mode **254**

(MSB1001T column, rows below Off Delay: "Parameters are fixed at defaults")

Electrical Connections

MSB1001T/MSB1001PT

L N E Lsw

Brown - Live (L)
Blue - Neutral (N)
Black - Switched live (Lsw)

L N E LOAD · L N E LOAD · L N E LOAD

Maximum Total Load not to exceed that specified for a Single Detector

Multiple Detectors may be connected in parallel, as is shown above, to control the same Maximum Load

MSB1001DT/MSB1001DALIT

Brown - Live (L)
Blue - Neutral (N)
White } Polarity-free (D)
White } digital output (D)

SUPPLY L N E

Do not connect the Dimming Signal Pair of one detector to that of another detector.

D D L N E BALLAST · D D L N E BALLAST · D D L N E BALLAST · D D L N E BALLAST

See 'Technical Data' for maximum number of ballasts

Detection Profile

Plan View
Detection pattern is a 360° cone shape. Diameter is 2.25 x the mounting height.

The squares show the arrangement of the detection pattern. Sensitivity is greater when approaching at a tangent rather than heading towards the centre.

BATTEN LUMINAIRE

Direction of most commonly used entry into detection zone, i.e. start of corridor or doorway

5m · 2.5m · 97° · DETECTION ZONE · 2.5m · 5m · 5.6m

Technical Data

All dimensions in mm
M20 x 1.5 · 14 · 29 · 15
580 · 135 · 40

OPERATING VOLTAGE: 230V~ 50Hz (UK & Europe)
POWER CONSUMPTION: <0.5W
CAPACITY: MSB1001DT - 4 x DSI ballasts
MSB1001DALIT - 4 x DALI ballasts
MSB1001T/PT - 2A Switching (max 4)
WEIGHT: 120g
COLOUR: White (RAL9010)
MATERIAL: Flame retardant PC/ABS
IP RATING: 65
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

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

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