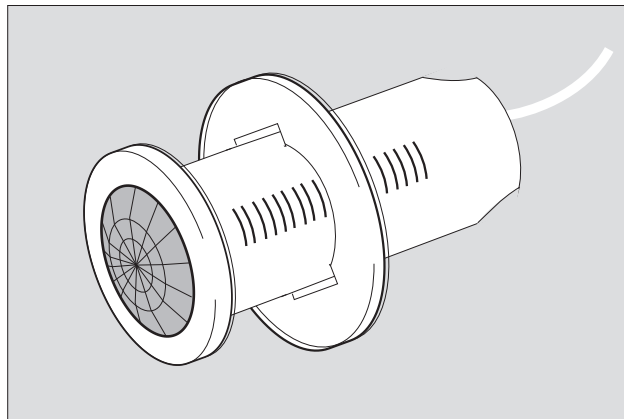




**LightSpot Washroom Series  
UC1200PF**



**Installation and Commissioning  
Instructions**

Note: HP2000 (or HP10\*/HP18\*) required for commissioning  
\* Please note that the HP10 and HP18 offer different/limited programming options

### LightSpot presence-detecting washroom control

Only suitably qualified personnel should install this equipment.

This is a high performance presence detector with photocell. The photocell can operate in three modes: Passive, Active or Disabled. Further information can be found overleaf.

### Fixing

The UC1200PF is suitable for flush mounting in a suspended ceiling tile, maximum 54mm thick and with a minimum clearance of 125mm between the front surface of the tile and the hard ceiling behind. The UC1200PF should be mounted in the centre of the group of luminaires to be controlled. Cut a 50mm diameter (64mm if using an FR64 flush ring or PB64 plasterboard fixing kit) circular hole in the tile, feed the flying lead and detector through the hole and secure into position with the locking ring. Twisting the locking ring will release the detector should this be necessary.

**Note:** Do not position within 25cm of a luminaire.

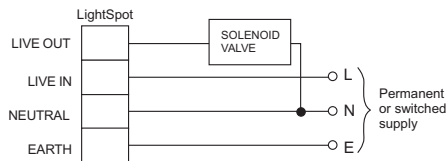
### Solenoid Valve

The solenoid valve must be plumbed into the water feed to the urinal header tank and connected to the detector using 230V cable.

### Connection Example

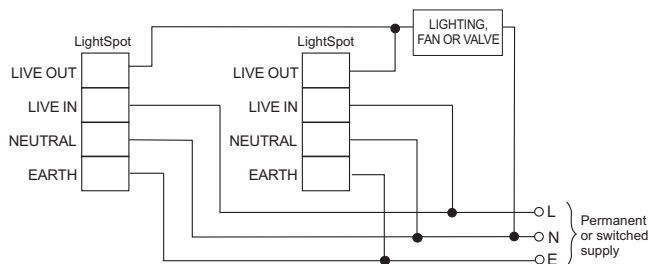
#### Single UC1200PF

Controlling water



#### Multiple UC1200PF

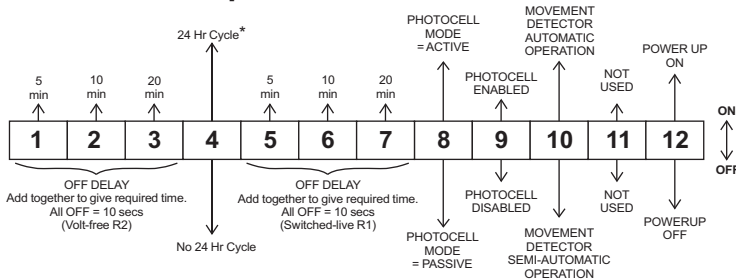
Larger areas can be covered by connecting extra units in parallel. The total load current must not exceed 6 Amps in case only one unit is activated.



### Important Additional Notes

1. All terminals on this product are provided for final connections. It is not intended that the product be used as a junction box for looping cables.
2. A means for disconnection must be incorporated in the fixed wiring in accordance with the current wiring regulations.
3. This equipment switches lights no more frequently than would a responsible human occupant. However, manufacturers of some lighting types (e.g. '2D' luminaires) may specify a maximum number of switching cycles in order to achieve a predicted lamp life. Please check with the manufacturer of the luminaires to ensure that they are compatible with automatic controls in this respect.

## HP10 Parameter Options for UC1200PF



Please note that additional parameters are available via the HP2000 Programmer.

\* If controlling water, the photocell cannot be used.

### Off Delay

The Off Delay may be set between 5 and 35 minutes. A 10-second Off Delay is available for walk-testing the product. In a typical office environment a 20-minute Off Delay is usually satisfactory.

### Movement Detector Operation (Automatic / Semi-Automatic)

Where absence detection is required (ie the user manually turns lights ON if required but lights still turn off automatically once an area is vacated), semi-automatic operation can be set via the programmer.

### Power Up Setting (On/Off)

Set to ON the detector will automatically switch its outputs on when Mains is applied. If set to OFF, the detector will power up without turning its outputs on, wait for 30 seconds and THEN look for movement. Only if the area is occupied will the output switch on at this time. The detector must be set to Power Up ON when used in conjunction with semi-automatic operation.

### Photocell Operation (Passive/Active/Disabled)

This detector has an in-built photocell. The photocell has three modes of operation - Passive, Active and Disabled. Its operational behaviour is governed by the setting chosen and by the values stored in the Upper and Lower thresholds (see diagram overleaf).

**Passive** - The photocell will inhibit turn-on of the controlled load if sufficient natural light is available. It will not turn the load off whilst an area is occupied

**Active** - The photocell will turn the controlled load on and off as required whilst natural light levels fluctuate during a period of occupancy. This mode of operation operates in conjunction with a passing cloud timer (PCT). The PCT is asymmetrical in operation - the load will be switched on immediately that the light level falls below the lower set point, however, the load switches off only if the light level exceeds the upper threshold *continuously* for a period equal to the Off Delay.

**Disabled** - The photocell has no effect.

### 24hr Cycle (Yes/No)

For use in 'Washroom Mode' only (see overleaf). In this mode it is necessary to have a hygiene cycle (flush) if the area has been unoccupied for 24hrs. Select this feature and the output will switch on for the duration of the Off Delay once every 24hrs if the area remains unoccupied.

### Commissioning

The units are supplied with factory default settings (Power-Up On, fully Automatic operation, a 20 minute Off Delay, no 24hr Cycle, Photocell Disabled). Programme using an infrared programming tool. Please note that the full range of parameters is accessible via the HP2000; the HP10 and HP18 offer different/limited programming options.

### Walk-test Mode

Walk-test mode is used to check that the detector is operating as required. The short off-delay enables the installer to check that lights are switching on when movements are made at the edge of the detection zone. It is easier to carry out a walk-test when the photocell is not holding the lights off.

1. Change the Off Delay to 10 seconds using the HP10 or press 'TEST' (HP18) or 'Utilities/Walk Test/OK' (HP2000).
2. Move around the area that is being controlled, stopping for 10 seconds to allow the lights to switch off, before moving and triggering the lights back on. Re-programme the desired Off Delay once testing is complete. Note: If the HP2000 or HP18 was used to engage 'soft' walk test mode as described above, the programmed Off Delay will be automatically restored after 5 minutes.

### Setting the Photocell

1. Wait until the time of day when the ambient light level is equal to the level at which you want the photocell to become active.
2. Using the HP2000, select 'Set Light Level' from the Utilities menu and press OK while pointing at the detector to store the current light level - the lights must be on prior to starting this process. The detector stores two values in Lower Threshold and Upper Threshold (see diagram). This procedure can also be accomplished by using the HP10 Basic Programmer's 'Store' button, however editing of stored threshold values is not possible with the HP10.
3. If required, these values can be manually edited via the HP2000. Please note, these are not Lux levels but a representation of the light levels perceived by the detector at the time of the store command.

Note: If the photocell is set to Passive, only the value in the Lower Threshold is relevant.

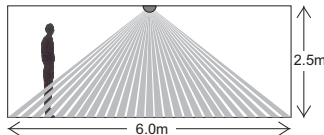
If the photocell is set to Active, once the ambient light level drops below the Lower Threshold value, the lights will turn ON. If the ambient level exceeds the value of the Upper Threshold for the duration of the off-delay (Passing Cloud Timer) then the lights will turn ON. If the photocell is set to 'Disabled' when a Set Light Level operation is made, it will revert to operating in Passive mode.

### Washroom Mode

This product allows the control of water for washroom management applications (urinals). In order to maintain good standards of hygiene the products feature a washroom mode (24hr Cycle) that, if enabled, ensures that when urinals have not been used for 24 hours (i.e. the controlled area has been unoccupied), a hygiene flush occurs. Please note that when controlling lighting *and* urinals, it is not possible to have the photocell influence the output status as this could prevent flushing of the urinals.

### Technical Data

OPERATING VOLTAGE: 230V 50Hz (UK & Europe)  
RECOMMENDED CIRCUIT PROTECTION: 10 Amps  
MAXIMUM LOAD: 6 Amps  
MAXIMUM RECOMMENDED MOUNTING HEIGHT: 3 metres  
RANGE: Cone-shaped detection pattern, diameter (at floor level) = 2.4 x mounting height

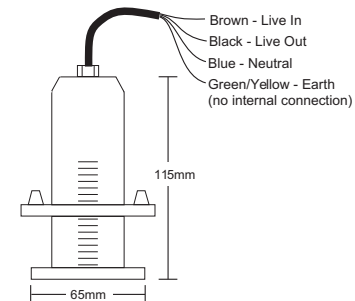


PHOTOCELL: Adjustable 50-5000 lux via Programmer  
OFF DELAY: Adjustable via Programmer - factory pre-set to 20 minutes  
Programmer options: 1 min - 96 hours / Disabled (via HP2000);  
5 - 35 mins (via HP10); 5, 10 or 20 mins (via HP18)  
- plus 10-second Walk-test Mode

COLOUR: White  
MATERIAL: Flame retardant PC/ABS  
WEIGHT: 70g approx (excluding cable)  
IP RATING: 4X

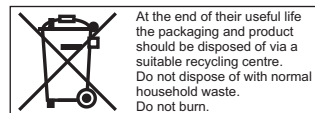
### Electrical Connections

#### UC1200PF



### Ex-Or

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At the end of their useful life the packaging and product should be disposed of via a suitable recycling centre. Do not dispose of with normal household waste. Do not burn.



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