

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

Washroom Series

Automatically flushing cisterns can waste a great deal of water. In a typical installation, every cistern flushes automatically all day and all night, during weekends and holidays, whether the facility is being used or not. A 10 litre cistern can use 20,000 litres of water a month and most of it is wasted.

Presence-detecting LightSpot washroom controls provide a simple and effective way to cut the waste and save money by regulating the flow of water to automatic flushing cisterns. Further savings can be made by switching off lights and fans in unoccupied toilet areas. The flush control can be programmed independently from the lighting control.

To ensure that fresh, hygienic conditions are maintained during holiday shutdowns, an automatic daily flush takes place.



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.



1 min-
96 hrs

Off delay: Period following the last observed movement after which lights switch off. Adjustable via QuickSet Pro.



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



Dual-circuit (1 x volt-free, 1 x switched-live output). Switched-live influenced by photocell, volt-free output by presence detection only. Independent time delays can be programmed via QuickSet Pro.



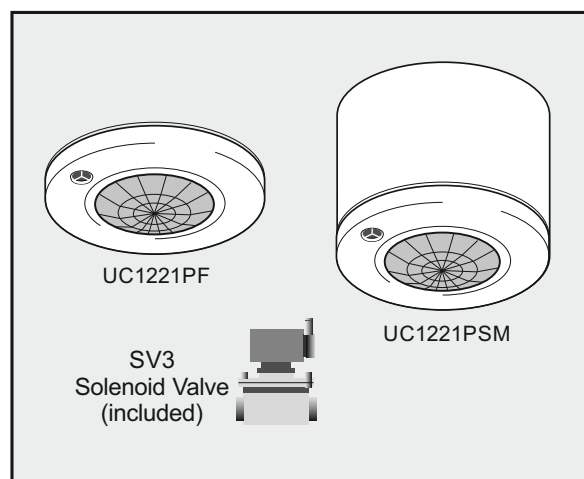
Hand-held Controller provides local user override.



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



Washroom mode. If no movement is detected in a 24-hour period, detector can be programmed to switch the load on for the duration of the off delay.



Parameters - Programmable with QuickSet Pro

POWER UP

Options: On/Off

Sets the status of luminaires when power is applied.

On - lights power-up on irrespective of occupancy.

Off - lights respond to occupancy after 30 seconds.

Pre-set - On

RESPONSE

Options: Auto/Semi-auto

Note: Only affects switched-live output.

Auto - lights switch on and off automatically.

Semi-auto - lights are switched on by wall switch or hand-held controller and switch off automatically. **Pre-set - Auto**

OFF DELAY

Options: 1min - 96hrs / Disabled

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Walk-test

Sets the period after the last observed movement when the lights switch off. In walk-test mode, the Off Delay is 10 seconds.

Pre-set - 20 mins

PHOTOCELL MODE Options:

Active/Passive/Disabled

Passive - holds lights off when sufficient natural light.

Active - lights turn on and off as required when natural light levels fluctuate and area is occupied.

Disabled - the photocell has no effect. **Pre-set - Disabled**

24 HOUR CYCLE

Options: Yes/No

For use in 'Washroom Mode' only. Provides hygiene flush if area has been unoccupied for 24 hours. **Pre-set - No**

Please check www.ex-or.com to ensure this is the most recent issue - Ref: D4102I

Dimensions and Installation Notes	Example Wiring Diagrams
<div data-bbox="103 134 694 425"> </div> <div data-bbox="103 448 375 716"> <p>Depth required behind ceiling: 62mm from front flange plus allowance for the minimum bend radius of the cable. Sinking box fits into 89mm diameter hole in ceiling tile or plasterboard ceiling. No access above the ceiling is necessary. The detector fits into sinking box with a simple bayonet action thus concealing the fixing screws.</p> </div> <div data-bbox="422 448 766 672"> <p>The housing may be secured to a hard surface or a BESA box. The detector fits into the housing with a simple bayonet action.</p> <p>Note: Do not mount these detectors within 25cm of a luminaire.</p> </div>	<div data-bbox="877 134 1436 537"> <p>Single UC1221PF or UCS1221PSM</p> <p>The UC1221 has two outputs, one influenced by the photocell (R1), the other not (R2). This is useful in applications where a fan or water is being controlled in addition to any lighting.</p> </div>
Technical Data	Ancillary Items
<p>MAXIMUM RECOMMENDED MOUNTING HEIGHT: 3.0m</p> <p>RANGE: Cone-shaped detection pattern, diameter (at floor level) = 2.4 x mounting height</p> <div data-bbox="462 817 766 952"> </div> <p>OFF DELAY: Adjustable: 1 min-96 hours / Disabled (via QuickSet Pro) - plus 10-second Walk-test Mode Off Delays 1 & 2 are independently adjustable</p> <p>PHOTOCELL: Adjustable 50-5000 lux via infrared programmer</p> <p>OPERATING VOLTAGE: 230V 50Hz (UK & Europe)</p> <p>RECOMMENDED CIRCUIT PROTECTION: 10 Amps</p> <p>MAX LOAD: 6 Amps per output (not exceeding 10A in total)</p> <p>COLOUR: White RAL9010</p> <p>MATERIAL: Flame retardant PC/ABS</p> <p>WEIGHT: Flush 210g; Surface 187g</p> <p>IP RATING: 3X</p>	<div data-bbox="877 795 1436 1086"> <p>QuickSet Pro Digital 2-Way Programmer Menu-driven LCD Programmer with automatic equipment recognition and parameter download facilities.</p> <p>HC5A Universal Hand-held Controller Allows user override. Supplied with wall bracket.</p> </div>

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

UC1221PF	Dual-circuit LightSpot washroom control with photocell - flush
UC1221PSM	Dual-circuit LightSpot washroom control with photocell - surface
SV3	WRAS-Approved Solenoid valve - 15mm compression fittings
QUICKSET PRO	QuickSet Pro Digital 2-Way Programmer
HC5A	Universal Hand-held Controller