ACTIVATA

Passive Infrared Light Control Sensor

LC-720

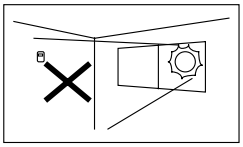
ADVANCED DESIGN ELECTRONICS
CHLORIDE SECURITY DIVISION

Installation Instructions

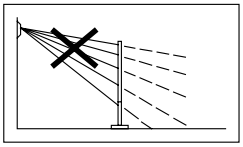
INTRODUCTION

The Activata SenSwitch light control sensor is an automatic light switching device which provides security, covenience, energy saving and hospitality benefits to users. It uses advanced infrared sensing technology to detect human body motion, activates domestic or outdoor lighting automatically.

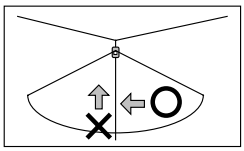
INSTALLATION HINTS



Do not install where the detector is in or facing direct/reflected sunlight or onto main roads (car head lights).



Ensure that there are not any obstructions(plants,screens...etc.) in the field of view which may cause incorrect cover/operation of the detector.

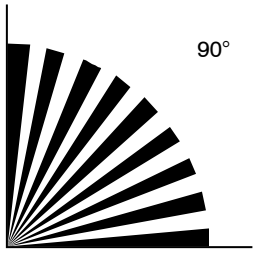


Light control sensor is more sensitive to the motion “across” the detection zones than “toward” the unit.

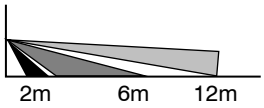
DETECTION PATTERN

90°, 12 x 12m at 25°C

Top View



Side View



MAINS CONNECTION

The Activata SenSwitch should be wired to a fused spur and all mains supply connections should be carried out by a technical competent person and according to the IEE wiring regulations.

INSTALLATION

The Activata SenSwitch can be mounted on wall or ceiling without the need of optional mounting bracket. For ceiling mount, the sensor head should be adapted as show in Fig. 2 by holding the ball joint part of swivel arm with thumb and index finger, then pushing the sensor head to the end. The weatherproof design allows the unit to be installed indoors or outdoors. Please read the following procedure to ensure correct installation.

1. Switch off the main power before installing.
2. Gently adjust the sensor head downward, this will enable release of the 3 fixing screws, separate the mounting base and the main unit of Activata SenSwitch.
3. Mount the base in the selected position with the provided mounting screws.
4. Let the cable pass through the cable entry for wiring on the terminal block.

Wall mount **Ceiling mount**

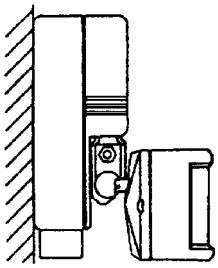


Fig. 1

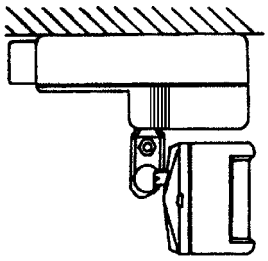


Fig. 2

a. For automatic operation with manual off control, please refer to Fig. 3 for correct wiring.

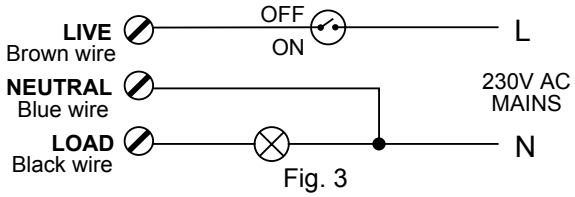


Fig. 3

b. A switch may be connected as shown in Fig. 4 to enable manual override the lights. If the switch is on the lights will remain on until the switch has been returned to the off position abd the Activata SenSwitch will then continue its normal operation.

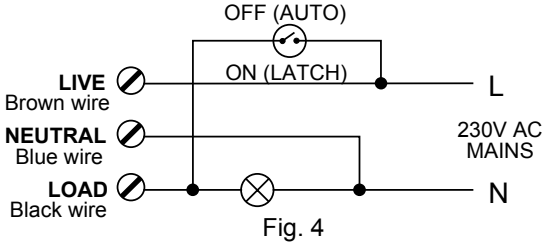


Fig. 4

ADJUSTMENTS

A. Cds photocell

This trimmer controls the unit's operation by sensing the brightness of ambient light and therfore preventing daylight operation. When performing the walk test (see across) ensure that the trimmer is set at maximum position (factory preset).

B. Delay time

This trimmer controls the amount of time that the lights will remain on for after movement was last detected, the control is adjustable between 8 seconds and 8 minutes approximately. If movement is again detected before this period expires, the timer will be reset and the lights will remain on.

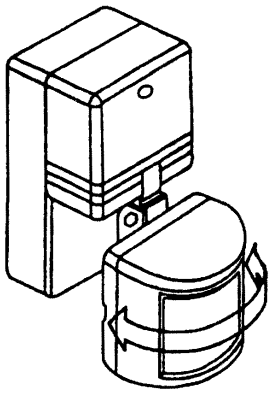


Fig. 5 **Right and left**

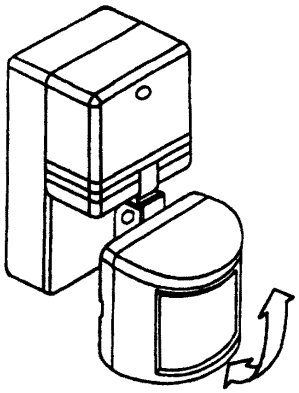


Fig. 6 **Up and down**

ATTENTION:

DO NOT TWIST SENSOR HEAD

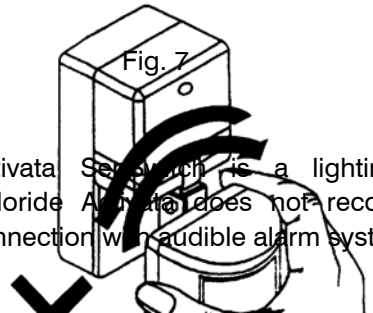


Fig. 7

Activata Sensor Switch is a lighting control device. Chloride Activata does not recommend its use in connection with audible alarm systms.

WALK TEST

1. Apply power and wait about 30 seconds for the sensor to stabilise (warm-up). Please note that the lights will remain on during this period.
2. Ensure that the delay time control is set to minimum and that the photocell is set to maximum. The unit will now operate in daylight.
3. With the sensor head set horizontally, point it toward the area to be covered. Walk across this area and observe the switching action of the connected lights. The lights should go on when you enter the detection area. Adjust the sensor head from left to right (Fig. 5) or up and down (Fig. 6) until satisfactory detection range is obtained, Please note that tilting the sensor head downward will reduce the range, upward will increase it.
4. Once the optimum detection range is obtained, adjust the delay time trimmer to the required time.
5. To set the Cds photocell, set the trimmer to minimum, at this point the lights will only operate in full darkness. When the ambient light level drops to the point at which you require the lights to operate, slowly turn the trimmer clockwise, while moving our hand in front of the sensor head at the same time. Stop turing the trimmer at the point when the lights operate.

SPECIFICATIONS

Detection method ..... Passive Infrared (PIR)
Power supply ..... 110 ~ 230V AC ±10%, 50Hz
Detection range ..... 90°, 12 x 12m at 25°C
Maximum load ..... 5A resistive / 1000 watts
Delay time ..... 8 seconds ~ 8 minutes (approx.)
Protection rate IP44
Cable gland M16
Mounting height..... 1.5 ~ 3.0m
Dimensions ..... 125 x 68 x 96mm
Temperature ..... -20° ~ 50°C (-4° ~ 122°F)
Unit weight 190g

For further help and technical support contact the Technical Support Department of Chloride Activata.

CHLORIDE
SAFETY SYSTEMS

General Tel: 0151 549 1550 Fax: 0151 549 1516
Direct Sales: 0151 549 7555/6/7 Fax: 0151 546 5011
Technical Help: 0906 302 0999. This is a premium rate line.
Calls are charged at 50p per minute

Registered Installers should refer to their supplied contact details.

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