

INTRODUCTION

The Activator Passive Infrared Senswitch is an automatic light switching device which provides security, convenience, energy saving and hospitality benefits to users. It uses advanced infrared sensing technology to detect human body motion, activates domestic or outdoor lighting automatically.



SPECIFICATIONS

DETECTION METHOD	Passive Infrared (PIR)
POWER SUPPLY	100~250V A.C. 50/60Hz
SWITCHING CAPACITY	1000 Watts load
DELAY TIME	8 sec.~ 8 min (approx)
PROTECTION RATING	IP-54
WARM-UP TIME	30 sec. (approx)
CABLE GLAND	M16
DIMENSIONS	125 x 68 x 96 mm
MOUNTING HEIGHT	1.5~3 m (5~10ft)
TEMPERATURE	-20° ~ 50°C (-4° ~ 122°F)
UNIT WEIGHT	190 grams

INSTALLATION HINTS

- Remember that the passive infrared sensor is more sensitive to movement "across" the detection beam than toward the unit. Select a location therefore, where traffic will intercept the detection beams.
- Do not aim the unit directly at sunlight as this could cause premature sensor failure.
- Do not have the detection area near sources of varying heat, radiators, stoves, etc...
- Do not obstruct the front of the unit, infrared beams are not able to penetrate solid matter.
- Do not mount the unit on an uneven surface.

DETECTION PATTERN

NO.	LENS-1
TYPE	Wide Angle
COVERAGE	12 x 12 m (90°)
TOP VIEW	
SIDE VIEW	

INSTALLATION

The Activator can be mounted on wall or ceiling without the need of optional mounting bracket. For ceiling mount, the sensor head should be adapted as shown 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.

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

WALL MOUNT

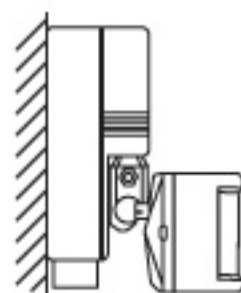


Fig. 1

CEILING MOUNT

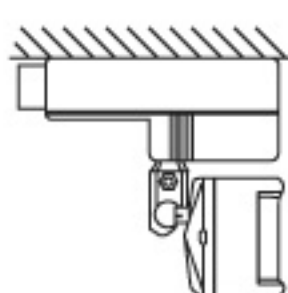


Fig. 2

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

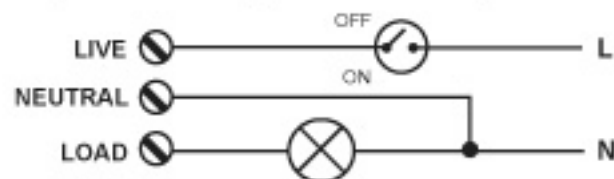


Fig. 3

- b. The Switch may be connected as shown in Fig. 4 to enable manual override if required, in this case, with the switch off, the Activator will control operation of the lights. With the switch on the lights will be on permanently until the Activator is turned off.

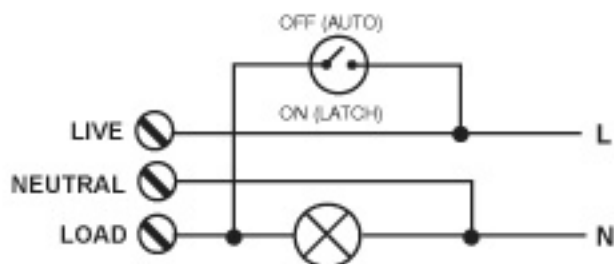


Fig. 4

ADJUSTMENTS

A. Cds photocell

This trimmer controls the unit's operation by sensing the brightness of ambient light and therefore preventing daylight operation. When performing the walk test (see below) 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 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.

C. Detection range

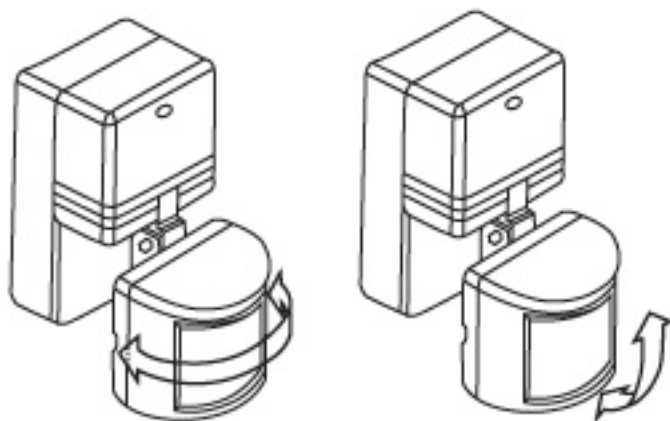


Fig. 5 Right and left

Fig. 6 Up and down

WALK TEST

- 1) Apply power and wait about 30 seconds for the sensor to stabilize (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 switch 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, moving a hand in front of the sensor head at the same time. Stop turning the trimmer at the point when the lights operate.

ATTENTION: DO NOT TWIST SENSOR HEAD

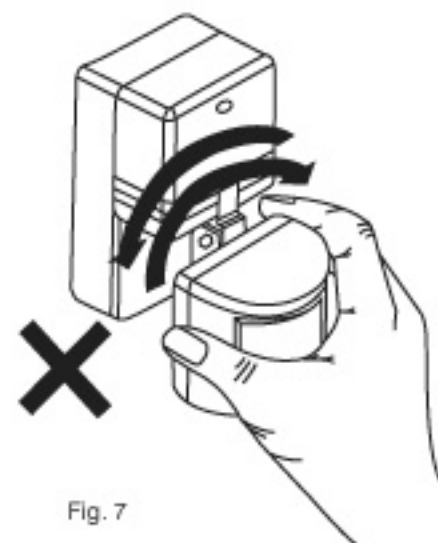


Fig. 7

Absolutely no twist !!!

Activator is a lighting control device. IR-TEC does not recommend its use in connection with audible alarm systems.



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