

Instruction Guide

OUTDOOR ILLUMINATED PIR TIMER

570A-1

3 wire

The **Outdoor Illuminated PIR Timer** (3 wire) is part of the Elkay family of switches, timers and detectors which save energy and increase convenience in and around your home, garden or premises.

Rating at 240V ac

- All load types 16A
- Time Delay: 2 min - 2 hrs
- Lux Level setting
- Blue Locator ring
- Last minute indicator
- IP66

Usage

The outdoor PIR timer has been designed to control lighting, heating and ventilation. The unit is switched on by the detection of moving body heat within a specified range. When body heat is no longer detected, the unit will switch off after the adjustable time period has elapsed. If moving body heat is detected again during the timing period, the timing sequence will restart. The unit has a lux level adjustment, which measures the ambient light levels and prevents lighting being switched on when there is sufficient light in the room.



Your Elkay PIR timer has the added benefit of a manual override facility. This allows the lights to be turned on for the set period of time when the ambient light level is such that the lights would not usually come on. In dark conditions the manual override disables the PIR allowing the lights to be turned off indefinitely or when the override switch is re-pressed.

Diagram 1

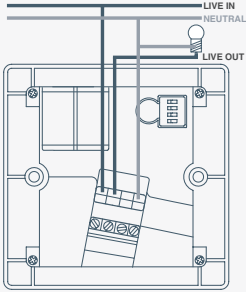


Diagram 2

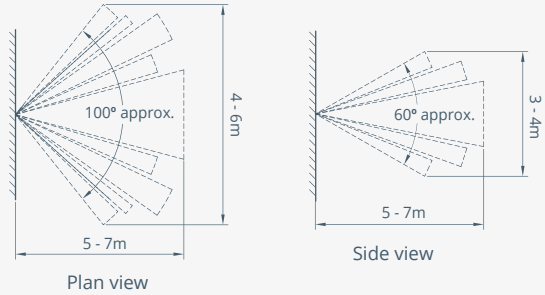


Diagram 3 - Time settings

Please note: The black bar denotes the position of the dip switch.



Positioning

Use the detection range to determine a suitable location for the sensor. When locating the position of the unit avoid subjecting the sensor to direct sunlight. Ensure that the sensor is not adjacent to the load. Do not site the unit on a vibrating surface, or near a forced air heating or ventilation (see diagram 2).

Mounting and Installation

IMPORTANT Please note that it is essential that the Live In wire and switch Live Out is identified prior to commencing installation. Turn off mains supply for installation. Your Elkay unit is compatible with a single gang, 25mm deep, British Standard accessory plate. Please ensure that the top and bottom lugs are removed, if fitted, from metal wall boxes prior to fitting. Ensure that there is adequate space for wiring.

Step 1

Place the Live In wire into the left hand position of the connector, the switched Live Out wire into the second from left position of the connector and neutral into right hand position of connector. (see diagram 1).

Step 2

Set the timing as per timing table (see diagram 3). The black square illustrates where the dip switch should be situated.

For example:

10min 1 = OFF, 2 = ON, 3 = OFF, 4 = OFF

Step 3

To adjust lux level (i.e. the ambient light level at which you would like your lights to be activated via the PIR timer) please refer to the lux level rotary adjuster diagram. Rotate the lux level adjustment clockwise to decrease the level of light required to turn the lights on and anticlockwise to increase the level of light required to turn the lights on. See diagram 1 for position of lux level adjustment.

Step 4

Re-apply mains supply. The blue locator ring will light up around the PIR button. Your light or appliance, will now be switched off. Please refer to operation section.

Step 5

Reduce lux level to sufficient level by rotating clockwise towards (-) if required. (-) represents 0 lux level.

Installation Notes

N.B. After installation the PIR will require approximately 5 minutes to initialise.

Outdoor Installation

Outdoor Unit can only be used in conjunction with the surface mount box supplied. Take the surface mount box and remove the knock out section. It is recommended the hole is cut with a 20mm hole saw for cleanest effect. If required and to ensure IP66 waterproof rating, please use a suitable M20 cable gland use appropriate sealing washers. Mount the surface mount box on a secure surface using the mounting pack supplied. Place screw cover seals over the mounting screws. It is essential that the correct IP 66 rated connections are made to keep the integrity of the IP rated back box maintained. Mount timer unit onto surface mount box using the four screws at all four corners ensuring even connection with the seal-Place screw cover seals over left and right screw cavities. Clip on front fascia plate.

Flexible Cable – It is always better to use cable glands with flexible cable, with the gland connected at the bottom, rather than through the top. Ensure sealing washers are used with all connections and all glands and connections are done up tightly with a spanner to ensure water tightness.

SWA Glands – SWA glands can be used but must be IP rated. The IP rating for the SWA gland guarantees only the connections to the SWA cable. You will still need a nylon sealing washer to maintain the IP rating from the gland to the switch housing back box. As a general rule, nylon washers work best with this type of application. Rubber washers can deform when used with metal glands. Connections must be done up tightly with a spanner to ensure water tightness.

Operation of the Unit

1. In standard operation, the PIR will now sense body heat when passing through the detection zone. Each time the PIR is triggered the red LED will light and reset the timer back to the start of the timing period. The unit will then wait 20 seconds approximately before allowing the PIR unit to sense and re-trigger the timing period again.
2. If no one is present in the room or the detection zone is not passed through, during its set time period the timer will time out, turning off the lights or appliance and the blue indicator/locator ring will light up.
3. The PIR unit will only trigger the lights or appliance if the ambient light level is below that set on the lux level adjustment.
4. When the ambient light level is light enough so the lights would not normally come on with PIR use, the override switch can be used turn on the lights for the set period time. This can be used in times where additional light is required in a room.

To operate press the PIR lens, the red indicator LED will light to show it has been pressed and the timing will begin,



Picture 4

- in the last minute of timing the red LED will flash.
5. When the ambient light level is dark enough that the PIR is in normal operation, the override switch can be used to disable the PIR and the lights turned off indefinitely or until the override switch is pressed. This can be done by pressing the PIR lens, the red LED will flash rapidly to indicate the PIR has been disabled and can be re-enabled simply by pressing the lens again.

N.B. The PIR will require approximately 1 minute to initialise.

Important Notice

All wiring should be carried out by a competent person or a qualified electrician and should be fitted to current IEE wiring regulations BS 7671. The circuit should be isolated before carrying out any work. Failure to adhere to the instructions will invalidate the warranty.

Technical Helpline

For further help or assistance or information on this or other products in the range please call the Elkay Technical team on +44 (0)28 9061 6505. Please call the Technical helpline before returning any products to your stockist. These instructions are available in other languages. Please refer to our website www.elkay.co.uk Instrukcje są również dostępne w innych językach. Prosimy o zapoznanie się z naszą stroną internetową www.elkay.co.uk lub www.elkaypolska.pl

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