

## pirtimer fitting & operating instructions

Product: 376A-1, 376A-2, 770A-1, 570A-3, 570A-4 **Two wire.**

The **pirtimer** 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.

**WHEN USED WITH SOME LOW WATTAGE LIGHTING, PLEASE ENSURE A POWER FACTOR CORRECTION CAPICATOR OF 2 MICROFARADS (MINIMUM) IS FITTED.**

### USAGE

The PIR timer has been designed to replace a single gang light switch, 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.

### 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, as per diagram, into the left hand position of the connector, the switched Live Out wire into the second from left position of the connector. (see diagram 1)

**Step 2** To set time, as per timing table, use switches one through three. Depending on required time available from 2 minutes to 2 hours. E.g 10 minutes = switch one – off, switch two – on, switch three – off. (see diagram 3)

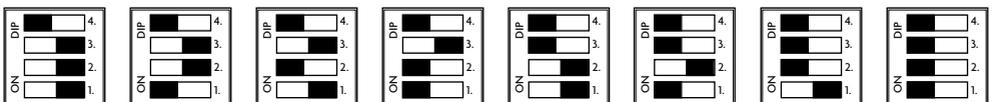


Diagram 3

### RATING AT 240V AC

Incandescent	16A
Fluorescent	16A
Compact Fluorescent	16A
Time Delay	2mins - 2hours.

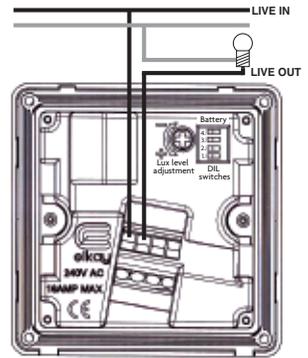


Diagram 1

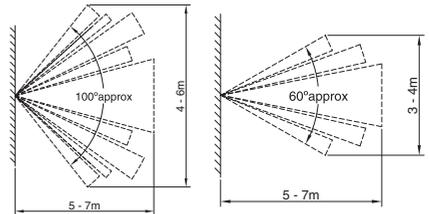


Diagram 2

## MOUNTING AND INSTALLATION CONTINUED

**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** Switch on battery (switch 4) – you will notice a red LED light on the front of the unit – which will be flashing rapidly. Whilst this is in action, attach the unit with the screws to the wall, then clip on the front fascia plate. The red light will change to a single flashing light every 2.5 seconds approx. Re-apply the mains supply. The light, or chosen appliance, will now start. Press and hold the button for a maximum of 2.5 seconds. The flashing red LED will go off. 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.

## INSTALLATION NOTES

N.B If the mains power has not been applied and the PIR lens is pressed the blue locator ring will flash once. The unit will then revert to the rapid flashing mode and the sequence must be repeated.

N.B From the rapid flashing mode, if the installation sequence is not progressed, the unit will revert to sleep mode after a period of 10 minutes. To re-activate the unit press and hold the PIR lens for approximately 5 seconds.

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

## OUTDOOR INSTALLATION

**Please note only products in the Elkay energy outdoor range are suitable for use outdoors. Elkay energy outdoor can only be used in conjunction with the surface mount box supplied.**

Take the surface mount box and remove knock out section. If required and to ensure IP66 waterproof rating, please use a suitable M20 cable gland. Mount the surface mount box on a secure surface using the mounting pack supplied. Place screw cover seals over the mounting screws.

**Turn off mains supply before proceeding with installation** - Install as per previous PIR installation instructions - Mount unit onto surface mount box using the fixing screws at all four corners - Place screw hole seals over left and right screw cavities - Clip on front fascia plate - Re-instate mains supply.

## OPERATION

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 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, 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 lens will require approximately 1 minute to initialise.

## OPERATION NOTES

If the Elkay PIR timer does not receive power for a period of over seven days, please turn battery off, using switch 4.

In the case of power failure, your Elkay PIR timer will attempt to automatically re-start, which will cause the blue locator ring to flash. The unit will attempt to locate the power source for a total of five minutes. Each recovery attempt will increase by a minute each time. This will be repeated 25 times before the unit will power down to sleep mode. During this time, pressing and holding the PIR sensor for approximately 10 seconds will initiate a further recovery attempt.

## IMPORTANT NOTICE

All wiring should be carried out by a competent person or a qualified Electrician in accordance with the current IEE Wiring Regulations. If unit is faulty please return to place of purchase.

## TECHNICAL HELPLINE

For further help, or information on this and the other products in the Elkay range visit [www.elkay.co.uk](http://www.elkay.co.uk) or call 01675 468222.



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