

## Instruction Guide

# ILLUMINATED PIR TIMER

## 376A-1

2 wire

The **ILLUMINATED PIR Timer** (2 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
- Fits 25mm back boxes
- Override facility
- Single and multi way switching

### Usage

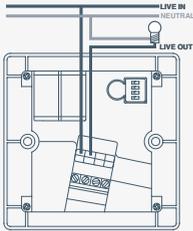
The PIR timer has been designed to replace a single gang light switch to control lighting. The unit is switched on by the detection of moving body heat within a specific range. When body heat is no longer detected, the unit will switch off after the adjustable time period has elapsed. If moving body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



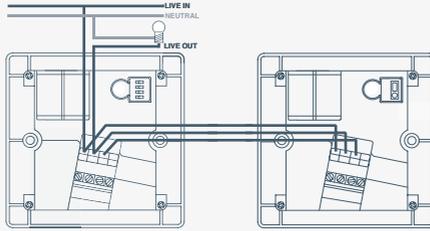
When used with some low wattage lighting, such as LEDs please ensure a capacitor of 2 microfarads (min.) is fitted. Supplies of suitable elkay capacitors can be found at your stockist (Product no. PFCC-1).

**Do not use this PIR with contactors.**

**IMPORTANT** Please note that it is essential that the live in and live out are identified prior to commencing the installation and steps 1 – 5 are followed precisely. No neutral is required on this product (See diagram 1). Do not install the switch timer with the mains power on as this can damage the product.

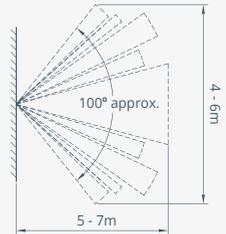


**Diagram 1**  
Wiring diagram for a single unit master.

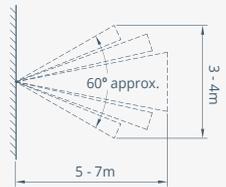


**Diagram 2**  
Wiring diagram for a Master and Activator.

**Diagram 3**



Plan view



Side view



**Diagram 4 - Time settings**

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

- **Not suitable for use with contactors**
- **Do not megger test or insulation resistance test this product.**
- **Remove before testing or test circuit prior to fitting**

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 from metal wall boxes prior to fitting.

For 16mm boxes Elkay provide a spacer plate (product code 220A-1) to take box depth to 25mm. For two way lighting (see diagram 2), you will require an activator.

**Please note** it is not possible to use two 2 wire masters in the same circuit.

**Positioning**

Use the detection range to determine a suitable location for the sensor. Avoid subjecting to direct sunlight, not adjacent to the load, vibrating surfaces or near forced air heating and ventilation.

This product requires a 24 hour power supply. The battery inside the unit recharges when the light source or appliance is switched OFF. Where the supply may be interrupted or isolated regularly we must recommend our products from the three wire range.

## Installation Steps

### DO NOT APPLY MAINS UNTIL INSTRUCTED!

#### Step 1

Ensure the mains power to the circuit is switched off. Place the previously identified live in wire as per diagram, into the terminal marked L In, the switched live out into the terminal marked L out (see diagram 1).

#### Step 2

Set the timing as per timing table (see diagram 4). The black square illustrates where the dip switch should be situated. For example:  
10min 1 = OFF, 2 = ON, 3 = OFF, 4 = ON

**Note:** Dip switch must be positioned away from the numbers for ON and against the numbers for OFF.

#### Step 3

When initialising rotate lux level to maximum (+).

#### Step 4

Switch on battery using dip switch 4. You will notice a red flashing LED light on the front of the unit. Attach the unit to the wall with the screws provided then clip the front fascia plate on. Switch on mains power supply, the unit will default your load to the ON condition (Blue ring OFF) for approximately 60 seconds before switching OFF (Blue ring comes ON and red LED will flash periodically during initialisation). Please leave for appropriately 5 minutes to allow the unit to initialise. There is no longer ANY need to press the PIR dome.

#### Step 5

Reduce lux level to sufficient level by rotating clockwise towards (-) if required. All the way to the minus (-) represents zero lux level.

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## Operation of the Unit

- 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 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.
- 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 the lights or appliance off and the blue locator ring will light up.
- The PIR unit will only trigger the lights or appliance if the ambient light level is below that set on the lux level adjustment potentiometer. See diagram 1 for location of potentiometer (lux level adjustment).
- When the ambient light level is sufficient the override switch (pressing the lens as shown in picture 5) can be used to turn on the lights for the set period of time. This can be used when additional light is required in the room.

## Installation Notes

In case of a 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. The unit will attempt to locate the power source between 4-6 times before powering down to sleep mode.

Once power is re-installed to reactivate the unit switch battery OFF for 15 seconds then back ON and leave unit to re-initialize itself.

## Override

Your Elkay 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 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.

## 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.*

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Picture 5

## Activator and Momentary Fitting

When connecting with Activators use three core cable connecting the Live In, Live Out and Trigger terminals as shown in diagram 2. The optional wire to the Activators only applies to the 350A-1 Pushbutton Activator units and is ideal for retrofitting (See diagram 2).

Please note that the Trigger terminal is the third terminal. Momentary or activating switches can also be used and can be connected back to the Live In and the Trigger terminal on the master.

## 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. In the unlikely event that you have to return your product, please ensure you switch the battery off first. These instructions are available in other languages. Please refer to our website [www.elkay.co.uk](http://www.elkay.co.uk) Instrukcje są również dostępne w innych językach. Prosimy o zapoznanie się z naszą stroną internetową [www.elkay.co.uk](http://www.elkay.co.uk) lub [www.elkaypolska.pl](http://www.elkaypolska.pl)*

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