

Instruction Guide

FLUSH MOUNT PIR TIMER

374C-1

3 wire

The **Flush Mount 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 220-240V ac 50Hz

- All load types 6A
- Time Delay: 30secs - 30min
- Manual Lux Sensor for daylight control

Usage

The PIR sensor has been designed to switch lighting, heating and ventilation loads up to 6A. The unit is switched on by the detection of moving infra red heat within a specified range. When infra red heat, such as a moving body, is no longer detected, the unit will switch off the load after the adjustable time period has elapsed.

If infra red 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 lighting in the room.

A power factor correction capacitor of 4 microfarads may be required when switching low wattage loads, e.g. LED loads. The capacitor is fitted across switch live and neutral supplies of suitable Elkay capacitors can be found at your stockist (ref. pfcc-1).

Do not insulation resistance test this product. Remove before testing or test circuit prior to fitting.

Diagram 1

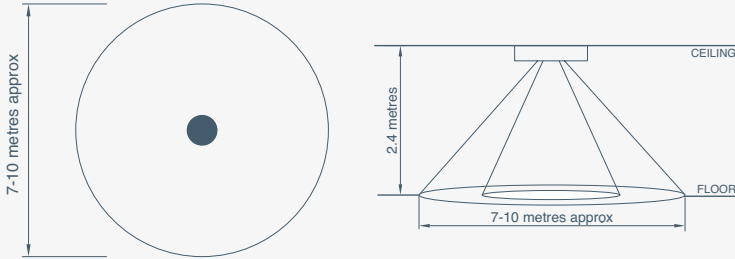
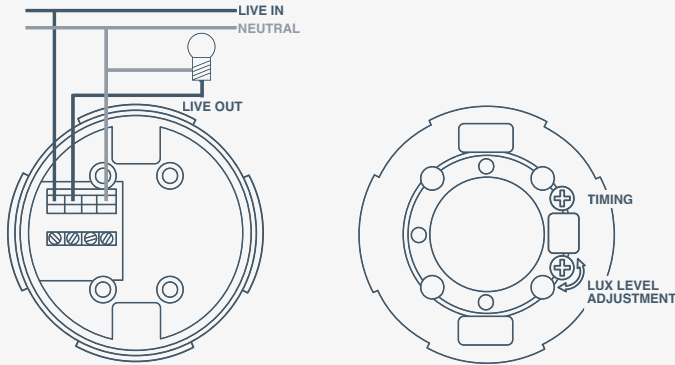


Diagram 2



Wiring diagram for a single unit.

Positioning

Careful positioning is essential to obtain optimum performance. Use the detection range to determine a suitable location for the sensor. When locating the position of the units, ensure the sensor is not subjected to bright or direct sunlight or in areas with high reflective surfaces.

Do not site units on a vibrating surface, or near forced air heating and ventilation. They should not be placed within 1 metre of the load. Sensors work when objects move across their field of view. Position the sensor where people will be detected walking across the zones rather than towards the zones identified in Diagram 1.

Installation Steps

IT IS ESSENTIAL THAT YOU FOLLOW CLOSELY STEPS 1 TO 7 OF THE MOUNTING AND INSTALLATION INSTRUCTIONS BELOW. FAILURE TO DO SO WILL INVALIDATE THE WARRANTY.

Step 1

Please ensure that you position the PIR in the correct place by reading the Positioning section of these instructions. For flush mounting cut a clean hole measuring 64mm in diameter in the chosen area for the sensor. Seal any large holes on ceiling to prevent air current activation.

Step 2

Ensure that the mains power to the circuit is switched off. Ensure terminal cover and cable clamp are correctly fitted with screws supplied. Place the Live In into the Terminal marked Live In and the switched Live Out into the Live Out terminal. Place the neutral into the connection marked N for neutral. Please note that it is essential that the Live In wire and the switch Live Out and Neutral are identified prior to commencing installation. To connect multiple units connect the live switch live and neutrals as shown in Diagram 2. Turn off mains supply for installation as live working is not recommended and can damage the unit.

Step 3

For flush mounting fold the two arms up into the vertical position and insert unit into the hole. Release unit ensuring arms are securely in place.

Step 4

Remove the fascia by turning anti-clockwise to show the lux pot, time delay pot switches. Please adjust the Lux Level and time delay potentiometer gently without force as this is a sensitive electronic part. After adjustment please wait 30 seconds for changes to take effect. It is recommend product is set up initially on the minimum 30 second time setting to enable an efficient walk test to check PIR area coverage.

Step 5

To manually set the desired Lux level adjust potentiometer between (+) and (-). This allows the PIR to only switch ON ambient light levels is below the set level. Adjustment to the plus (+) will allow the PIR to always switch ON when triggered. A minus - setting will effectively switch PIR OFF completely.

Step 6

To increase the time delay turn the potentiometer toward the High (H) and to decrease the time delay turn the potentiometer toward the Low (L).

Step 7

The PIR will take approximately 1 minute to initialize and will flash occasionally after the mains power is first applied to allow the sensor to learn its environment. The load will be ON and after initializing will then switch off if there is no detection in the zones.

Operation of the Unit

- In standard operation the PIR will now sense infra red heat when a person or source of heat passes through the detection zone. Each time the PIR is triggered it will reset the timer back to the start of the timing period. The unit will then wait 5 seconds before allowing the PIR 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 off the lights or appliance.
- The PIR unit will only trigger the lights or appliance if the ambient light level is below that set on the lux level adjustment.

Troubleshooting

Problem	Resolution
Lights will not switch OFF	<ul style="list-style-type: none">• Check terminal connections.• Check timings.• PIR is too close to load – Re-position away from lighting, heating and forced air ventilation.• PIR is switching low wattage or LED loads – Fit Capacitor as stated in instructions PFCC-1.• PIR is re triggered – Check area is left unoccupied for longer than time setting using an accurate time piece.
Lights will not switch ON	<ul style="list-style-type: none">• Check Terminal connections.• Lux set too low – Turn UP lux level to the PLUS (+) setting and wait for sensor to adjust.
Light switches OFF then immediately comes back ON	<ul style="list-style-type: none">• Check terminal connections.• PIR is detecting normally – Find source that is triggering PIR.• PIR is seeing infra red heat from the load- Re-position away from heat source (See Positioning).• PIR is switching low wattage or LED loads- Fit Capacitor PFCC-1 across switch live and neutral of load.• PIR is switching a contactor and the contactor chatters or stays ON - Fit a PFCC-1 capacitor across the switch live and neutral of the contactor coil.

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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