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CATALOGUE

# Elkay

## Energy management switches and controls



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**The Elkay energy management range of timers & switches provides a simple and highly cost effective way of saving energy. With a wide choice of timer controls for lighting and other types of electrical loads, the Elkay range provides a fast track route to substantial reduction in both energy bills and carbon emissions.**

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# Introduction

## Carbon footprint

Climate change is a serious problem that affects us all. There is now an overwhelming body of scientific evidence that emissions of greenhouse gases are changing the world's climate.

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01 PIR Timer.  
—  
02 Ceilingmount  
PIR Timer.

Reducing energy consumption therefore not only saves money, but also will reduce our carbon footprint. The new Elkay energy saving range from Elkay provides a cost effective practical step along this important journey.

Backing up the science, the UK government passed the Climate Change Act 2008 which introduces the world's first long-term legally binding framework to tackle climate change. The Act aims to encourage the transition to a low-carbon economy in the UK through legally binding emissions reduction targets.

This is enforced by Energy Performance Directives, which now stipulate key areas for improvement in the energy performance of buildings.

The new Elkay Energy Range gives architects, planners and electrical contractors a broad selection of simple but highly effective solutions to minimise the amount of energy used in all types of commercial and industrial environments.

In a domestic setting, the Elkay Range gives an excellent opportunity to increase style and functionality around the home, whilst making an important contribution to the reduction in our carbon footprint at the same time.

Our products save energy and money from the moment they are installed providing an instant energy saving solution.



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## Energy survey

A free, no obligation, energy survey from Elkay has resulted in many business making instant savings on their energy and reduced energy costs.

**Businesses of all sizes have never been more aware of the need to reduce energy consumption. Mention the spiralling costs of fuel – all of which contribute to make reducing energy consumption a necessity rather than a luxury.**

But where do you begin? How can you be sure you're cutting costs not corners? After all you're in business to make a profit and cannot afford to cut energy consumption at the expense of running your business.

This is where Elkay can help. Decades of experience in energy management have given us the expertise to come into your organisation and carry out a complete audit of your energy expenditure.

When we undertake an Energy Survey, we'll tell you not only where you are wasting energy but recommend practical steps, by utilising the Elkay Energy Range, to reduce waste and tell you exactly how much you'll save - in terms of energy output and money.

It's a service which many blue-chip companies have already taken advantage of - and the savings can be staggering.

To reinforce these findings, one nationally known UK retailer has cut their energy bill for lighting in back room areas by a massive 87 percent at just one of their branches after implementing the recommendations made in their energy survey.

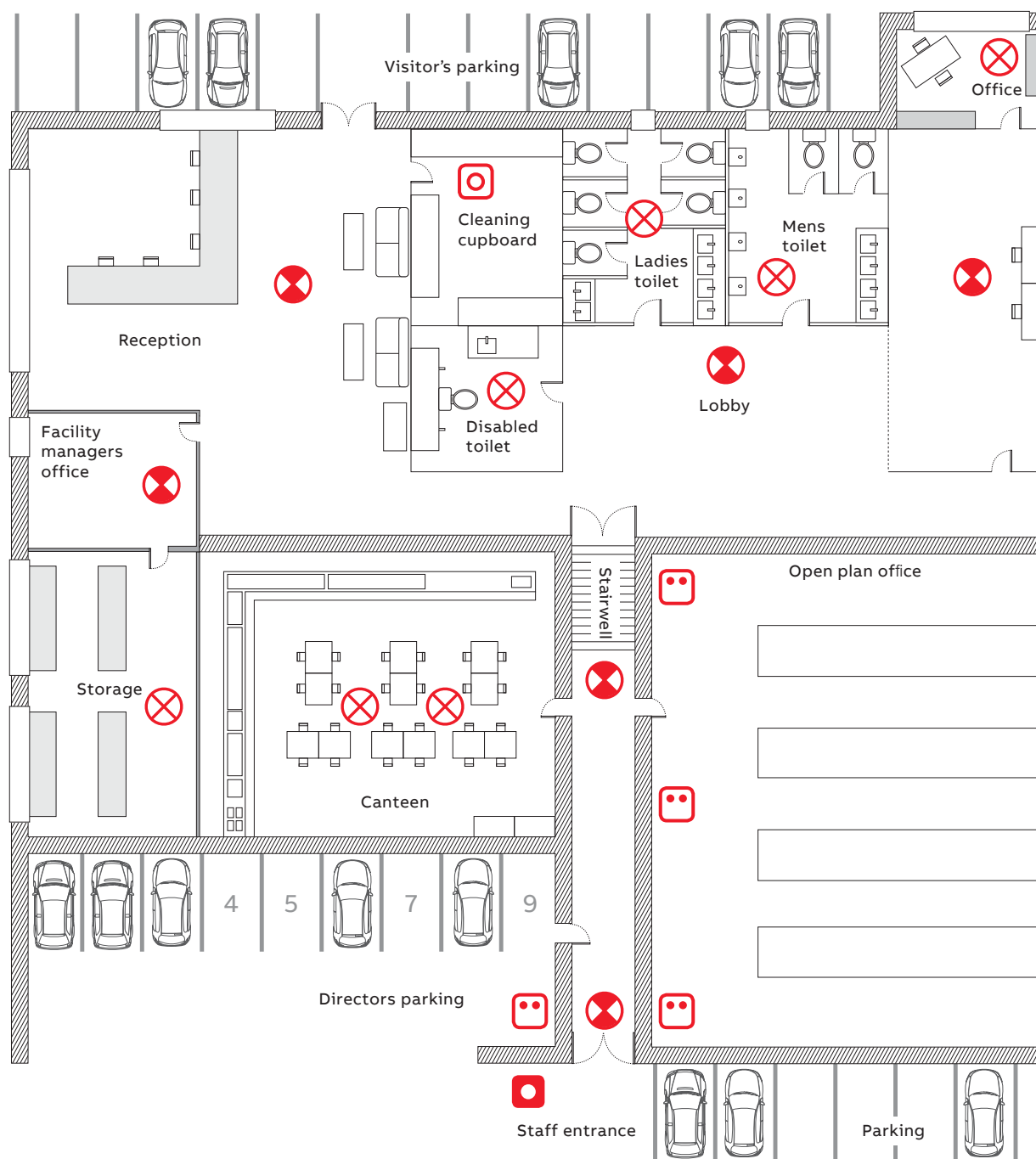
To find out more about Elkay Energy Surveys or to arrange one for your business call 01675 468222 or email [lv.customerservice@gb.abb.com](mailto:lv.customerservice@gb.abb.com)



# Introduction

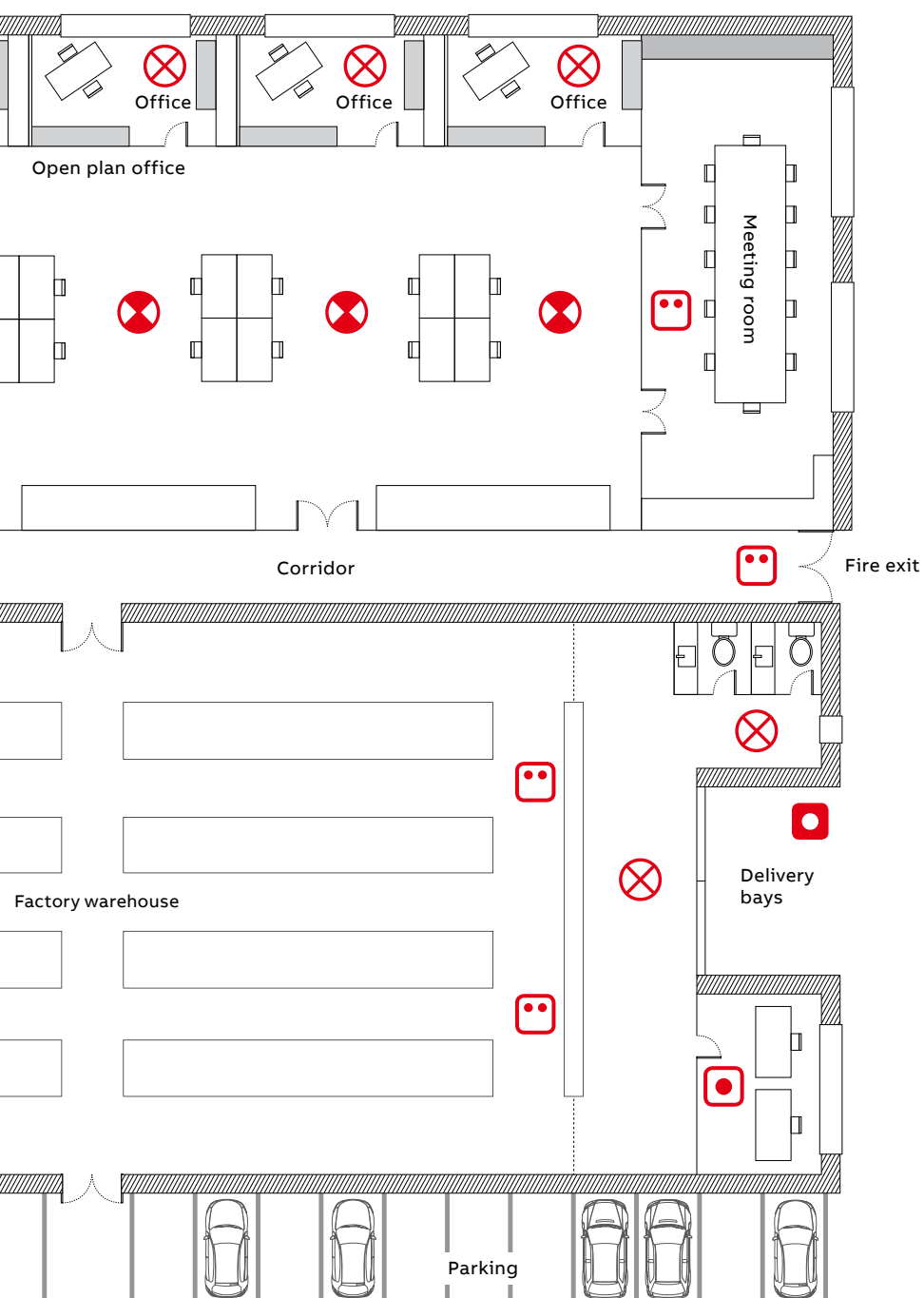
## Product applications

- 01 Office corridor.
- 02 Warehouse.
- 03 Open plan office.
- 04 Meeting room.
- 05 Warehouse office.
- 06 Outdoor area.



### Key

-  350A-1 – Pushbutton timer
-  370B-1 – 3 wire wall PIR
-  560A-1 – Outdoor touch timer
-  380A-1 – Microwave timer
-  374B-1 – Ceiling PIR
-  374B-1FPC – Fireproof ceiling PIR





## Range overview

### Timers & switches - Technical specification



#### Product selection guide

Type	Columbus® pneumatic timer	Columbus® pneumatic timer	Columbus® electronic timer	Pushbutton timer	Pushbutton timer
Reference	400A	400A-3	400E	350A-1	3875A-1
Configuration	Single contacts	Double contacts	–	Wire	3 Wire
Colour	White	White	White	White	White
Hidden screws	•	•	•	•	•
Fascia plate height	10 mm	10 mm	10 mm	8 mm	8 mm
Back box depth (not supplied)	10 mm	10 mm	10 mm	25 mm	25 mm
Max load rating @240V resistive / incandescent	6A	6A	5A	16A	16A
Max load rating @240V fluorescent	3A (max 6 fittings)	3A (max 6 fittings)	5A	16A	16A
Max load rating @240V compact fluorescent	3A (max 6 fittings)	3A (max 6 fittings)	5A	16A	16A
Max load rating @240V LED	3A	3A	5A	16A	16A
Blue locator ring	–	–	–	•	•
Red signal LED	–	–	–	•	•
Neutral required	–	–	–	–	•
Timing range	5sec - 5min	5sec - 5min	20sec - 25min	2min - 2h	2min - 2h
Timing cancellation	–	–	–	•	•
Illuminated switches	–	–	–	•	•
Intelligent power search facility	–	–	–	•	N/A
Use with contactor	•	•	–	–	•**
Page	16	16	16	17	17

NOTE: 3 Wire products have a neutral. 2 Wire products have no neutral. Slaves must be used with illuminated switches and connected with 3 Core cables to Master unit.

\*PFCC-1 Capacitor will often be required with circuits switching low wattage loads.

\*\*PFCC-1 Capacitor must be fitted at contactor - see page 24 or contact Elkay Technical.

01 Columbus®  
pneumatic timer.

02 Touch timer.



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Pushbutton slave	Standard pushbutton timer	Standard pushbutton timer	Pushbutton long timer	Touch timer	Touch timer	Touch slave
350A-3	350B-1	3875B-1	3875A-1-LT	360A-1	2235A-1	360A-3
3 Core connection	2 Wire	3 Wire	3 Wire	2 Wire	3 Wire	3 Core connection
White	White	White	White	White	White	White
•	–	–	•	•	•	•
8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm
25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm
16A	10A	10A	16A	16A	16A	16A
16A	10A	10A	16A	16A	16A	16A
16A	10A	10A	16A	16A	16A	16A
16A	10A	10A	16A	16A	16A	16A
•	–	–	•	•	•	•
•	–	–	•	•	•	•
–	–	•	•	–	–	–
–	2min - 1h	2min - 1h	8min - 8h	2min - 2h	2min - 2h	–
•	•	•	•	•	•	•
•	–	–	•	•	•	•
N/A	–	–	N/A	•	N/A	N/A
–	–	•**	•**	–	•**	–
17	18	18	19	20	20	20

—  
03 Standard  
pushbutton timer.



Range overview

Timers & switches - Technical specification

Product selection guide



Type	PIR timer	PIR timer	PIR slave electronic timer	Standard PIR timer	Standard PIR timer
Reference	376A-1	370A-1	376A-3	370B-1	376B-1
Configuration	2 Wire	3 Wire	3 Core connection	3 Wire	2 Wire
Colour	White	White	White	White	White
Hidden screws	•	•	•	–	–
Fascia plate height	8 mm	8 mm	8 mm	8 mm	8 mm
Back box depth (not supplied)	25 mm	25 mm	25 mm	25 mm	25 mm
Max load rating @240V resistive / incandescent	16A	16A	16A	10A	10A
Max load rating @240V fluorescent	16A	16A	16A	10A	10A
Max load rating @240V compact fluorescent	16A	16A	16A	10A	10A
Max load rating @240V LED	16A	16A	16A	10A	10A
Blue locator ring	•	•	•	–	–
Red signal LED	•	•	•	•	•
Neutral required	•	•	–	•	–
Timing range	•	–	–	–	–
Timing Range	2min - 1h	2min - 1h	–	2min - 1h	2min - 1h
LUX level adjustment	•	•	•	••	•
Timing cancellation	•	•	•	–	–
Illuminated switches	•	•	•	–	–
Intelligent power search facility	•	N/A	N/A	–	–
Use with contactor	–	•**	–	•**	–
Page	21	21	21	22	22

NOTE: 3 Wire products have a neutral. 2 Wire products have no neutral. Slaves must be used with illuminated switches and connected with 3 Core cables to Master unit.  
\*PFCC-1 Capacitor will often be required with circuits switching low wattage loads.  
\*\*PFCC-1 Capacitor must be fitted at contactor - see page 24 or contact Elkay Technical.

01 Standard PIR timer.

02 Fireproof ceiling mount PIR.







Ceiling mount PIR timer	Fireproof ceiling mount PIR	Microwave timer	Remote timer	Wall surface mount box	Wall space plate	Capacitor
374B-1	374B-1FPC	380A-1	320A-1	210A-1	220A-1	PFCC-1
3 Wire	3 Wire	3 Wire	3 Wire	—	—	—
White	White	White	White	—	White	Black
—	—	•	•	—	—	N/A
4 mm	4 mm	8 mm	8 mm	—	—	N/A
55 mm	92 mm	35 mm	25 mm	25 mm	10 mm	N/A
10A	10A	16A	16A	—	—	N/A
10A	10A	16A	16A	—	—	N/A
10A	10A	16A	16A	—	—	N/A
10A	10A	16A	16A	—	—	N/A
—	—	—	—	—	—	N/A
•	•	•	—	—	—	N/A
•	•	•	•	—	—	N/A
—	•	•	—	—	—	N/A
2min - 1h	2min - 1h	2min - 2h	2min - 2h	—	—	N/A
•	•	•	•	—	—	N/A
—	—	—	—	—	—	N/A
•	•	•	•	—	—	N/A
•	•	N/A	N/A	—	—	N/A
•**	•**	•**	•**	—	—	•**
23	24	25	26	27	27	27

—  
03 Ceiling mount  
PIR timer.

—  
04 Microwave timer.



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03



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## Range overview

### Outdoor timers & switches - Technical specification



#### Product selection guide

Type	Pushbutton timer	Standard pushbutton timer	Standard pushbutton timer	Touch timer	PIR timer
Reference	550A-1	550B-1	550B-3	560A-1	570A-1
Configuration	3 Wire	3 Wire	2 Wire	3 Wire	3 Wire
Colour	White	White	White	White	White
Hidden screws	•	•	•	•	•
Fascia plate height	8 mm	8 mm	8 mm	8 mm	8 mm
Back box depth (not supplied)	65 mm	65 mm	65 mm	65 mm	65 mm
Max load rating @240V resistive / incandescent	16A	10A	10A	16A	16A
Max load rating @240V fluorescent	16A	10A	10A	16A	16A
Max load rating @240V compact fluorescent	16A	10A	10A	16A	16A
Max load rating @240V LED	16A	10A	10A	16A	16A
Blue locator ring	•	–	–	•	•
Red signal LED	•	–	–	•	•
Neutral required	•	•	–	•	•
Timing range	2min - 2h	2min - 1h	2min - 1h	2min - 2h	2min - 2h
Timing cancellation	•	•	•	•	•
Illuminated switches	•	•	•	•	•
Intelligent power search facility	N/A	–	–	–	•**
Use with contactor	•**	•**	–	•**	•**
Page	30	31	31	32	33

NOTE: 3 Wire products have a neutral. 2 Wire products have no neutral. Slaves must be used with illuminated switches and connected with 3 Core cables to Master unit.

\*\*PFCC-1 Capacitor must be fitted at contactor - see page 24 or contact Elkay Technical.

01 Outdoor pushbutton timer.

02 Outdoor touch timer.





—  
03 Outdoor standard  
pushbutton timer.





## Timers & switches

### Introduction

The Timers & Switches range from Elkey provides a simple and highly cost effective way of saving energy, which can be easily installed in existing buildings as it can be incorporated into new build schemes.

— 01 Columbus®  
electronic timer.

— 02 Pushbutton timer.

— 03 Standard PIR timer.

With a wide choice of timer controls for lighting and other types of electrical loads, products across the Energy Sense range provide a fast track route to substantial reduction both in energy bills and carbon emissions.

From the Columbus® pneumatic time delay switch to intelligent pushbutton, touch and PIR timers, the Elkey range offers extensive features, attractive styling and practical solutions.



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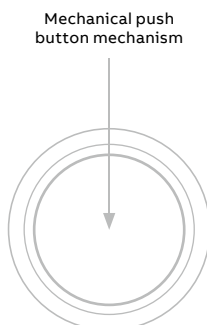


03



## Timers & switches

### Columbus® pneumatic & electronic timers



#### Description

Columbus® Pneumatic Timer is an easy to fit and cost effective way of automatically turning lighting off after a set period of time. Pushing the button switches the contacts and activates the time delay, which can be set at installation anywhere between 5 seconds and 5 minutes (Note timings are approximate).

The unit has single or double contact options and can be fitted to existing single gang switches, making it a perfect low cost energy saving solution in areas such as stairways, corridors and storerooms.

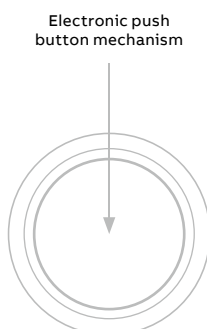
#### Key features:

- For fluorescent (6 fittings max), incandescent lighting and LEDs
- Replaces existing single gang wall switch
- No neutral required

#### Columbus® pneumatic timer

Part No.	Type	Configuration	Finish	Rating	GID No.
400A	Columbus pneumatic timer	Single contact arrangement	White	3A-6A-240V	7TCA299000R0001
400A-3	Columbus pneumatic timer	Double contact arrangement	White	3A-6A-240V	7TCA299000R0002

See Technical pages 38-44 for wiring diagrams.



#### Description

Columbus® Electronic Timer is an easy to fit and cost effective way of automatically turning lighting off after a set period of time. Pushing the button switches the switch and activates the time delay, which can be set at installation anywhere between 20 seconds and 25 minutes. It can be fitted to existing single gang switches, making it a perfect low cost energy saving solution in areas such as stairways, corridors and storerooms.

#### Key features:

- For fluorescent (5A), incandescent (5A) lighting ONLY and LEDs
- Replaces existing single gang wall switch
- Capacitor required for all low wattage loads and LEDs
- No neutral required

#### Columbus® electronic timer

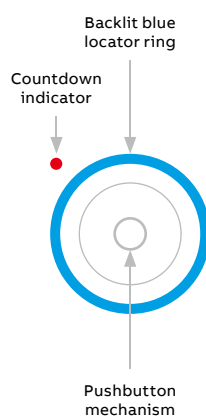
Part No.	Type	Configuration	Finish	Rating	GID No.
400E	Columbus electronic timer	–	White	5A-240V	7TCA299000R0008

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagrams.



## Timers & switches

### Illuminated pushbutton timer



#### Description

The Pushbutton Timer is suitable for retrofit into modern lighting systems. Able to replace existing single gang switches, to provide energy saving functionality by turning off the power source via timer, to avoid unnecessary power usage.

The Pushbutton Timer must be used in conjunction slave devices for multi-way applications. This has the ability to latch back on to the mains power supply and reset in the event of a power cut.

A Capacitor must be used in the circuit when switching low wattage loads such as fluorescent, compact fluorescent, and LED's.

#### Illuminated pushbutton timer

Part No.	Type	Configuration	Finish	Rating	GID No.
350A-1***	Illuminated pushbutton timer master	2 Wire* for lighting only	White	16A-240V	7TCA299010R0011
3875A-1***	Illuminated pushbutton timer master	3 Wire	White	16A-240V	7TCA299010R0045
350A-3	Illuminated pushbutton timer slave	3 Core**	White	16A-240V	7TCA299010R0014

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.

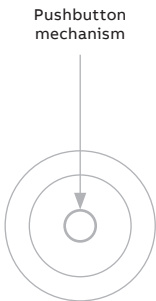
\*\*Slaves must be used with illuminated range and connected with 3 Core cables to Master unit. \*\*\*Slave unit required for multiway switching. See Technical pages 38-45 for wiring diagrams.

#### Key features:

- 16A any load type (requires Capacitor PFCC-1 for all types of low wattage loads and LED lighting)
- 2 wire (Live and Switch live required) 24 hour uninterrupted supply required
- Blue Locator ring
- Re-set timing sequence at any time during countdown
- Can be interlinked with any Elkay slave switches (Only one Master per circuit)
- Fits into 25mm depth back boxes
- Time settings from 2 mins to 2 hours
- Last minute indicator
- No Neutral required

## Timers & switches

### Standard pushbutton timer



#### Description

The Standard Pushbutton Timer is an energy saving device to switch loads for a pre-selected time period. It fits easily into a British Standard back box of 25mm depth.

The timer can be interlinked in parallel with other Elkay timers to create multiple switching points. It can also replace an existing switch at the switch point to provide energy saving functionality by turning off to avoid unnecessary power usage.

A Capacitor must be used in the circuit when switching low wattage loads such as Fluorescent, compact fluorescent, and LED's.

#### Standard pushbutton timer

Part No.	Type	Configuration	Finish	Rating	GID No.
350B-1	Standard pushbutton timer	2 Wire* for lighting only	White	10A-240V	7TCA299030R0017
3875B-1	Standard pushbutton timer	3 Wire	White	10A-240V	7TCA299030R0000

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagrams.

#### Key features:

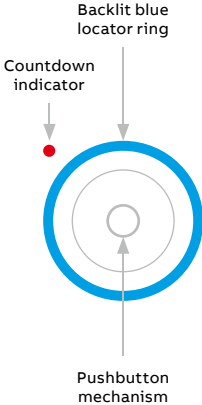
- 10A any load type (requires Capacitor PFCC-1 for all types of low wattage and LED loads)
- 2 wire (Live and switch live)
- 3 wire (Live, switch live and neutral)
- Can be retrofitted into any type of lighting wiring circuit
- Can be interlinked with other standard push button timers
- Fits into 25mm depth back boxes
- Time settings from 2 mins to 1 hour and LEDs

#### Typical applications:

- 2 wire for lighting only
- 3 wire for general purpose loads including resistive loads and incandescent, fluorescent and LED lighting

Timers & switches

Illuminated pushbutton long timer



Description

A stylish, 3 wire, illuminated Pushbutton Timer suitable for retrofit into modern lighting systems. This version of our Push Button Timer can time from **8 minutes to 8 hours**, providing longer time control. Able to replace existing single gang switches, to provide energy saving functionality by turning off the power source via timer, to avoid unnecessary power usage.

The Pushbutton Timer must be used in conjunction slave devices for multi-way applications. This has the ability to latch back on to the mains power supply and reset in the event of a power cut.

A Capacitor must be used in the circuit when switching low wattage loads such as fluorescent, compact fluorescent, and LED's.

Illuminated pushbutton long timer

Part No.	Type	Configuration	Finish	Rating	GID No.
3875A-1LT**	Pushbutton long timer master	3 Wire	White	16A-240V	7TCA299010R0047

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
\*\*Slaves must be used with illuminated range and connected with 3 Core cables to Master unit. \*\*\*Slave unit required for multiway switching.  
See Technical pages 38-45 for wiring diagrams.

Key Features

- 16A any load type (requires Capacitor PFCC-1 for all types of low wattage loads and in LED lighting)
- 3 wire (Live, switch live and neutral required)
- Blue Locator ring
- One minute countdown LED indicator
- Re-set timing sequence at any time during countdown
- Can be interlinked with any Elkay slave switches
- Fits into 25mm depth back boxes
- Time settings from **8 minutes to 8 hours**

Typical applications:

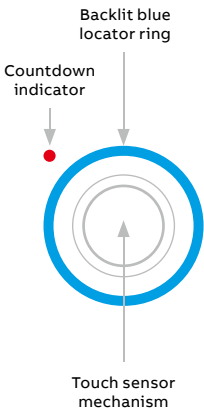
A general purpose timer for use with lighting loads, towel rails, heaters, contactor coils and ventilation loads. Can be retrofitted into any type of circuit with a neutral feed and interlinked with any slave timers to provide multiple switching points.

Suitable for all long timing applications such as large occupied areas and battery charging etc.



Timers & switches

Touch timer



Description

The Touch Timer offers energy saving features at the lightest of touches. With the reliability of a fully electronic unit, with no mechanical moving parts, it has all the features of the Elkay push button timer unit with the additional benefit of a featherlight touch activation.

Variable timing selection, a backlit blue neon indicator ring and automatic reset are all part of this feature-packed device. It is also suitable for multi-way applications thanks to slave switch options with the 2 wire and 3 wire master devices.

Touch timer

Part No.	Type	Configuration	Finish	Rating	GID No.
2235A-1***	Touch timer master	3 Wire	White	16A-240V	7TCA299010R0003
360A-1***	Touch timer master	2 Wire* for lighting only	White	16A-240V	7TCA299010R0016
360A-3	Touch slave	3 Core**	White	16A-240V	7TCA299010R0018

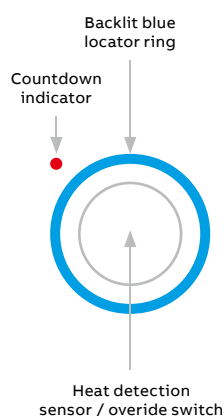
\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
\*\*Slaves must be used with illuminated range and connected with 3 Core cables to Master unit. \*\*\*Slave unit required for multiway switching.  
See Technical pages 38-45 for wiring diagrams.

Key features:

- 16A any load type (requires Capacitor PFCC-1 for all types of low wattage and in particular LED loads)
- 2 wire (Live and switch live)
- 3 wire (Live, switch live and neutral)
- Blue Locator ring
- One minute countdown LED indicator
- Re-set timing sequence at any time during countdown
- Can be interlinked with any Elkay slave switches (Only one Master per circuit)
- Time settings from 2 mins to 2 hours

## Timers & switches

### Illuminated PIR timer



#### Description

The PIR Timer is a fully automatic device which controls various power loads through the detection of body heat. Activated by the detection of moving body heat, the lighting or power load will then stay on for a preset period of time.

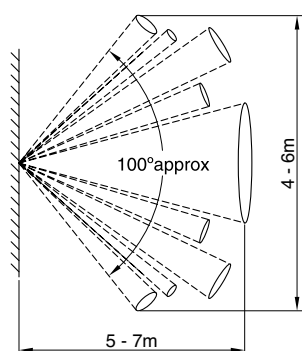
If body heat is no longer detected, the time period will elapse and the load will be switched off. An internal light sensor will keep the lighting switched off when sufficient ambient light is available, further increasing the energy saving potential of the PIR Timer. The unit also has an override switch on the faceplate (illuminated only).

#### Illuminated PIR timer

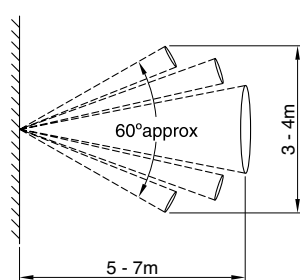
Part No.	Type	Configuration	Finish	Rating	GID No.
376A-1***	Illuminated PIR timer master	2 Wire* (for lighting only)	White	16A-240V	7TCA299010R0037
370A-1***	Illuminated PIR timer	3 Wire	White	16A-240V	7TCA299010R0020
376A-3	PIR slave	3 Core**	White	16A-240V	7TCA299010R0040

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.

\*\*Slaves must be used with illuminated range and connected with 3 Core cables to Master unit. \*\*\*Slave unit required for multiway switching.  
See Technical pages 38-45 for wiring diagrams.



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#### Key features:

- Passive Infra Red movement sensor
- 16A any load type
- 2 wire (Live and switch live)
- 3 wire (Live, switch live and neutral required)
- Blue Locator ring
- Manual override of the Lux Level setting
- Override OFF capability
- Fits into 25mm depth back boxes
- 360° detection utilising an elliptical beam
- 5 - 7 m detection range
- Time settings from 2 mins to 2 hours
- Last minute indicator on illuminated
- 16A any load type (requires Capacitor PFCC-1 for all types of low wattage and LED loads)

01 Plan view.

02 Side view.

Timers & switches

Standard PIR timer



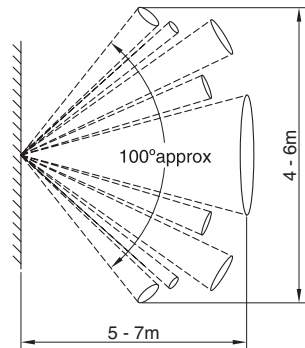
**Description**

The PIR Timer is a fully automatic device which controls various power loads through the detection of body heat. Activated by the detection of moving body heat, the lighting or power load will then stay on for a preset period of time.

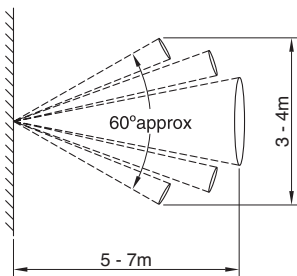
If body heat is no longer detected, the time period will elapse and the load will be switched off. An internal light sensor will keep the lighting switched off when sufficient ambient light is available, further increasing the energy saving potential of the PIR Timer. The unit also has an override switch on the faceplate (illuminated only).

Standard PIR timer

Part No.	Type	Configuration	Finish	Rating	GID No.
376B-1	Standard PIR timer	2 Wire* for lighting only	White	10A-240V	7TCA299030R0013
370B-1	Standard PIR timer	3 Wire	White	10A-240V	7TCA299030R0005



01



02

- Key features:**
- Passive Infra Red movement sensor
  - 16A any load type
  - 2 wire (Live and switch live)
  - 3 wire (Live, switch live and neutral required)
  - Blue Locator ring
  - Manual override of the Lux Level setting
  - Override OFF capability
  - Fits into 25mm depth back boxes
  - 360° detection utilising an elliptical beam
  - 5 - 7 m detection range
  - Time settings from 2 mins to 2 hours
  - Last minute indicator on illuminated
  - 16A any load type (requires Capacitor
  - PFCC-1 for all types of low wattage and LED loads)

01 Plan view.

02 Side view.

## Timers & switches

### Ceiling mount PIR timer



#### Typical applications:

- Suitable for lighting (Instant start or hot re-strike only), heating, ventilation systems and contactor coils
- Suitable for use in cupboards and other small rooms where timed control can help efficient energy usage. Auto Lux and Manual Lux for extra daylight saving

#### Description

The Ceiling Mount PIR Timer is an energy saving device to switch loads only when there is presence or absence detected. This PIR timer unit has been specifically designed for ceiling mounting and includes spring fixing arms for quick and easy installation. This compact unit is one of the smallest most discrete units available and can be flush or surface mounted when used with a surface mounting box. It can also be mounted on BESA boxes.

The PIR is a time switch designed to sense moving infra red such as moving body heat, and activate a load or appliance for a specified time period. An internal light sensor in the switch will keep the load switched off when sufficient ambient light is available.

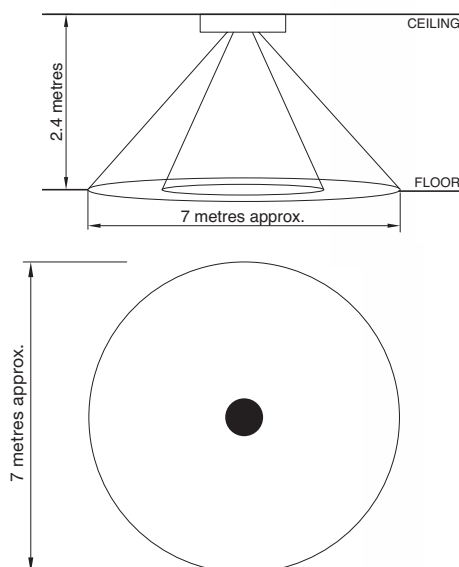
A red indicator LED signifies when timing has been retriggered and when the unit is in its final minute of countdown. Time control is adjustable from 2 minutes to 1 hour and the unit features a white and chrome bezel allowing easy access to timing, lux and sensitivity control without the need for removing from the ceiling.

#### Ceiling mount PIR timer

Part No.	Type	Configuration	Finish	Rating	GID No.
374B-1	Ceiling mount PIR timer	3 Wire	White	10A-240V	7TCA299030R0007

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagram and detection zones.

01 Ceiling mount PIR timer detection diagram.



#### Key features:

- 10A any load type (requires Capacitor PFCC-1 for all types of low wattage and LED loads)
- Sensitivity Adjustment control
- Auto Lux and Manual Lux for extra daylight saving control
- 10 second test mode to speed up installation time
- Surface and Flush mount option
- Time settings from 2 mins to 1 hour
- 360° Detection
- 6-7 m detection range
- 3 wire with a neutral being required
- Can be interlinked with other 374B-1 PIR timers
- Can be wired with single gang switch and work as an absence detector



Timers & switches

Fireproof ceiling mount PIR timer



Description

This PIR Timer unit has been specifically designed to meet the growing need from building control to maintain fireproof qualities in ceilings in public buildings and new build extensions. Its intelligent pre-wired design is particularly useful for ceilings where access above is limited or difficult. This compact unit is one pre-wired for your convenience and has intumescent seals designed to comply with domestic and commercial fire requirements from building control.

The PIR is a time switch designed to sense moving infra red such as moving body heat, and activate a load or appliance for a specified time period. An internal light sensor in the switch will keep the load switched off when sufficient ambient light is available.

A red indicator LED signifies when timing has been retriggered and when the unit is in its final minute of countdown. Time control is adjustable from 2 minutes to 1 hour and the unit features a white allowing easy access to timing, lux and sensitivity control without the need for removing from the ceiling.

Fireproof ceiling mount PIR timer

Part No.	Type	Configuration	Finish	Rating	GID No.
374B-1FPC	Fireproof ceiling mount PIR timer	3 Wire	White	10A-240V	7TCA299010R0157

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagram and detection zones.

Key features:

- 10A any load type (requires Capacitor PFCC-1 for all types of low wattage and LED loads)
- Sensitivity Adjustment control
- Auto Lux and Manual Lux for extra daylight saving control
- 10 second test mode to speed up installation time
- Time settings from 2 mins to 1 hour
- 360° Detection
- 6-7 m detection range
- Pre-wired in 3 core cable for your convenience
- Last minute indicator on illuminated
- 16A any load type (requires Capacitor)

Timers & switches

Microwave timer



**Description**

The 380A-1 Microwave Timer is a high performance presence detector with built in Lux level and sensitivity adjustment.

The unit sends out a high frequency sound wave over a range of up to 30 metres and is switched ON by changes to the sound wave caused by movement within the detection zone. With no changes to the sound wave, the unit will switch OFF after the adjustable time period has elapsed.

The intelligent Lux level adjustment, measures the ambient light levels and prevents the lighting being switched ON when there is sufficient light in the room. It also has a sensitivity range adjustment pot.

- Key features:**

  - 16A any load type (requires Capacitor PFCC-1 for all types of low wattage and LED loads)
  - 3 wire (Live, switch live and neutral required)
  - Time settings from 2 mins to 2 hours
  - Wall mounted for best coverage but can be ceiling mounted if required
- 30m detection range utilising an elliptical beam
  - Lux level/Daylight adjustment
  - Clip on front cover to conceal screws
  - Sensitivity Adjustment
  - Option to retrofit into existing systems

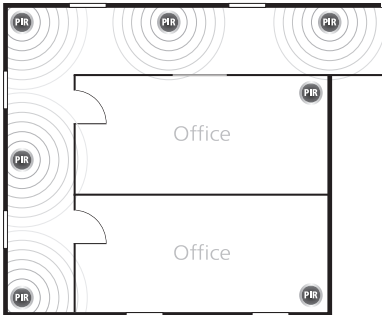
Microwave timer

Part No.	Type	Configuration	Finish	Rating	GID No.
380A-1	Microwave timer	3 Wire	White	16A-240V	7TCA299010R0042

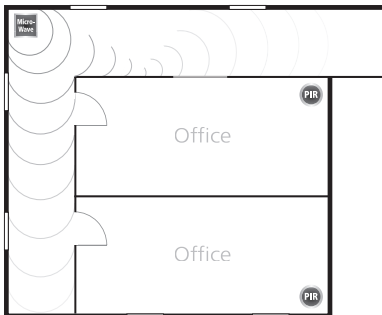
\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagram and detection zones.

01 When using PIRs in long corridors or spaces, there is often a need to position them every 6 to 8 metres. This incurs additional cabling, labour and connection costs at install. Maintenance costs over time are also increased from a PPM perspective as there are more devices to check and maintain.

02 With the Elkay Microwave detector 380A-1 mounted on the wall only one device is needed to cover areas up to 30 metres with lateral cover provided for up to 8 metres which increases overall flexibility. Microwave Detectors reduce cabling, connection, labour and future PPM costs simply because fewer detectors are needed. They can be mounted from 1.2 to 2.5m in height and should be wall mounted for best effect. They can also be used in hi bay lamps that are PL types or hot re-strike luminaires.



01



02

## Timers & switches

### Remote timer



#### Description

This remote sensor is ideal for use with an Elkay Slave switch and other retractive or momentary activated switches. It is also useful where the time adjustment is to be protected from end users making unauthorised timing alterations. This intelligent unit provides variable timing selection via-dip switch selection. The unit has a blank faceplate and is therefore tamper proof.

The Remote Timer is designed for general purpose loads, which enables it to be used on a variety of applications from lighting through to heating and ventilation. As it can be connected to a wide variety of slave or momentary switches, it provides installers with a large choice of activating switch. On installation the timing delay can be set for periods of between 2 minutes and 2 hours.

#### Remote timer

Part No.	Type	Configuration	Finish	Rating	GID No.
320A-1	Remote timer	3 Wire	White	16A-240V	7TCA299010R0007

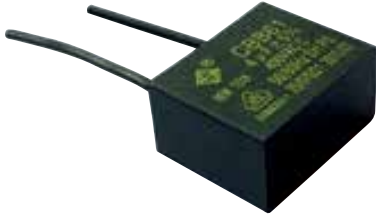
See Technical page 38-45 for wiring diagram.

#### Key features:

- 16A any load type (requires Capacitor PFCC-1 for all types of low wattage and LED loads and Contactor)
- For general purpose loads including resistive loads and incandescent / fluorescent lighting
- 3 wire (Live, switch live and neutral required)
- Can be interlinked with Elkay Slave, Retractive or Momentary Switches
- Clip on front plate 8mm deep
- Fits into 25mm depth back boxes
- Time settings from 2 mins to 2 hours

## Timers & switches

### Accessories



#### Description

The PFCC-1 Capacitor is designed to assist in switching low wattage and low voltage loads.

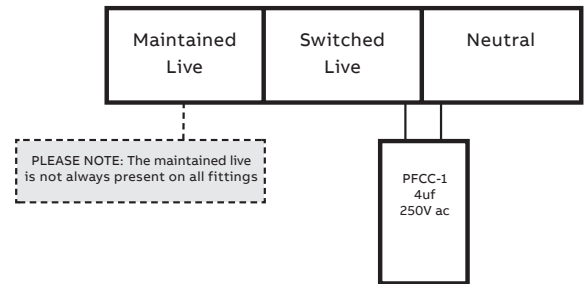
The Capacitor **MUST** be fitted with the following types of load:

- Low voltage
- Low wattage
- LED loads
- Contactors

#### PFCC-1 Capacitor

Part No.	Type	GID No.
PFCC-1	Power factor correction capacitor	7TCA299010R0148

In addition all 2 wire switches without a neutral will need a capacitor in circuit.  
ITEM IS SOLD SEPARATELY.



Wall mount box



Wall spacer plate

#### Wall mount box & wall spacer plate

Part No.	Type	Finish	GID No.
210A-1	Wall mount box	White	7TCA299010R0001
220A-1	Wall spacer plate	White	7TCA299010R0002

#### Description

Designed to fit between a switch or timer and the wall where standard 16mm cavity boxes have already been installed, saving installation time and not having to replace cavity back box with a 25mm deep box.

The Wall Mount Box is recommended for surface mounting of the Elkay range.



## Outdoor timers & switches

### Introduction

Energy saving can now be extended to suit your outdoor requirements.

- 01 Outdoor PIR timer.
- 02 Outdoor Touch timer.
- 03 Outdoor standard pushbutton timer.

With this trusted range of Outdoor Timers & Switches, ambient and security lighting and power applications can be timer controlled in outdoor environments including parking areas and gardens.

Designed to give an IP rating of IP66, the easy to fit products are supplied complete with an enclosure, mounting screws, nylon washers and screw cover seals and are suitable for use with IP rated SWA, M20 cable glands or ATS Flexible conduit systems.

Offering a choice of push button, touch and PIR giving functionality, style and durability to outdoor energy saving.



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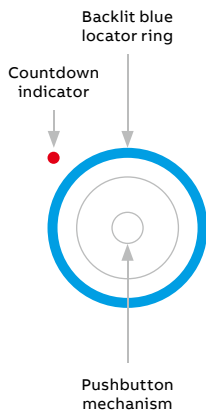
03





Outdoor timers & switches

Outdoor illuminated pushbutton timer



Description

The Outdoor Pushbutton Timer provides an electronic time delay switch for lighting and other power uses in outdoor environments. Ideal for use in driveways, gardens and patio areas. This easy to fit and highly cost effective unit offers energy saving functionality by turning lighting and power sources off to avoid unnecessary power usage.

Featuring a backlit blue neon indicator ring to aid location in the dark, these intelligent units have the ability to latch back on to the mains power supply and reset in the event of a power cut. The unit is supplied with a surface mounted back box with knockouts on five faces, mounting screws and screw cover seals.

Outdoor illuminated pushbutton timer

Part No.	Type	Configuration	Finish	Rating	GID No.
550A-1***	Outdoor illuminated pushbutton timer	3 Wire	White	16A-240V	7TCA299010R0059

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagrams.

Typical applications:

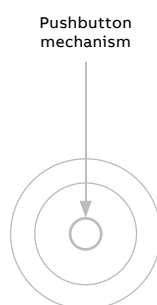
- For general purpose loads including resistive loads and incandescent, fluorescent and LED lighting
- 3 wire, commonly used to control all types of loads from lighting to heating and ventilation, such as outdoor patio or Infra red heaters
- It can also be used as a one way switch to control outdoor cupboard or store room lighting

Key features:

- Re-trigger function
- Time cancellation functions
- 16A any load type (requires Capacitor PFCC-1 for all types of low wattage loads and LED lighting)
- 3 wire (Live, switch live and neutral required)
- Blue Locator ring
- One minute countdown LED indicator
- Fits into 25mm depth back box (IP66 back boxes provided)
- Time settings from 2 mins to 2 hours
- Recommended connections are with IP rated Cable glands, IP rated SWA glands. It is advisable to use nylon sealing washers in connections to the box

## Outdoor timers & switches

### Outdoor standard pushbutton timer



#### Description

The Outdoor Pushbutton Timer provides an electronic time delay switch for lighting and other power uses in outdoor environments. Ideal for use in driveways, gardens and patio areas. This easy to fit and highly cost effective unit offers energy saving functionality by timing lighting and power sources off to avoid unnecessary power usage.

The unit is supplied with a surface mounted back box with knockouts on five faces, nylon washers, mounting screws and screw cover seals.

#### Outdoor standard pushbutton timer

Part No.	Type	Configuration	Finish	Rating	GID No.
550B-3	Outdoor standard pushbutton timer	2 Wire* (for lighting only)	White	10A-240V	7TCA299030R0021
550B-1	Outdoor standard pushbutton timer	3 Wire	White	10A-240V	7TCA299030R0019

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagrams.

#### Key features:

- 10A any load type
- Time cancellation functions
- Re-trigger function
- Time setting from 2 mins to 1 hour
- Recommended connections are with IP rated Cable glands, IP rated SWA glands. It is advisable to use nylon sealing washers in connections to the box

#### 550B-1

- 3 wire (Live, switch live and neutral required)
- Can be retrofitted into any type of wiring circuit with a neutral
- Can be interlinked with other 550B-1 time switches

#### Typical applications:

- The 550B-1 save energy by controlling the period of time the load is on and can be retrofitted into any type of circuit with a neutral. It can be interlinked in parallel to create multiple switching points to control lighting, electric pumps and other outdoor appliances such as outdoor patio or infrared heaters

#### 550B-3

- 2 wire (Live and switch live required)
- No neutral required
- Can be interlinked with other 550B-3 time switches
- A 24 hour uninterrupted supply is required

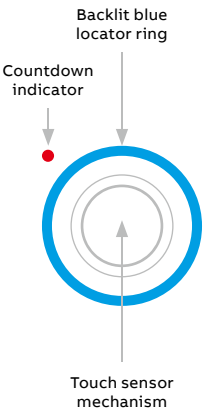
#### Typical applications:

- The 550B-3 save energy by controlling the period of time that lighting loads are on and can be retrofitted into any type of lighting circuit. It can be interlinked in parallel to create multiple switching points



Outdoor timers & switches

Outdoor illuminated touch timer



Description

The Outdoor Illuminated Touch Timer offers superb functionality and energy saving features with a subtle touch activation for a wide range of outdoor use.

The unit when used in outdoor environments offers increased reliability as a non-mechanical electronic unit. Knockouts on five faces, mounting screws and seal screw covers make for ease of installation. Variable timing selection, a backlit blue neon indicator ring and automatic reset are all part of this feature-packed device.

Outdoor illuminated touch timer

Part No.	Type	Configuration	Finish	Rating	GID No.
560A-1	Outdoor illuminated touch timer master	3 Wire*	White	16A-240V	7TCA299010R0065

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagrams.

Typical applications:

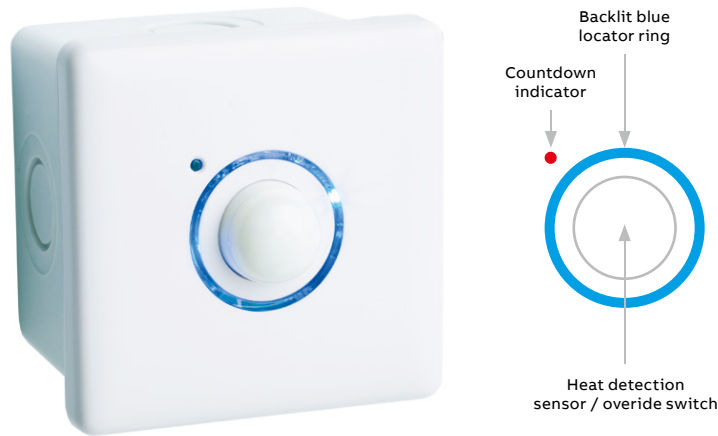
- Commonly used for outdoor patio or infrared heaters and where there is a neutral, to control all load types of lighting
- 3 wire (Live, switch live and neutral required)

Key features:

- 16A any load type
- Time cancellation functions
- Re-trigger function
- Blue Locator ring
- One minute countdown LED indicator
- Last minute indicator
- Time settings from 2 mins to 2 hours

Outdoor timers & switches

Outdoor PIR timer



**Description**

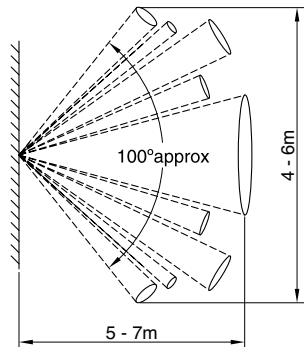
The Outdoor Illuminated PIR Timer is a fully automatic device which controls various power loads through the detection of body heat. Activated by the detection of moving body heat, the lighting or power load will then stay on for a preset period of time. If body heat is no longer detected, the time period will elapse and the load will be switched off.

An internal light sensor will keep the lighting switched off when sufficient ambient light is available, further increasing the energy saving potential of the PIR Timer.

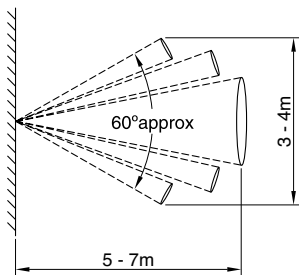
Outdoor PIR timer

Part No.	Type	Configuration	Finish	Rating	GID No.
570A-1	Outdoor PIR timer master	3 Wire*	White	16A-240V	7TCA299010R0072

\*PFCC-1 Capacitor will often be required when switching certain types of load - see page 24 for full details or contact Elkay Technical.  
See Technical pages 38-45 for wiring diagrams.



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- Typical applications:**
- Commonly used for lighting where there is a neutral, to control all load types such as fluorescent, resistive and LED loads
  - 3 wire (Live, switch live and neutral required)

- Key features:**
- 16A any load type
  - Blue Locator ring
  - Manual override of the Lux Level setting
  - Override OFF capability
  - 360° detection utilising an elliptical beam
  - 5 - 7 m detection range

01 Plan view.

02 Side view.

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DALI TESTING AND CONTROL

The DALI protocol is set out in the technical standards governed by the Digital Illumination Interface Alliance in association with member companies in industry working groups.



# DALI

## What is DALI?

DALI (Digital Addressable Lighting Interface) is a data protocol and transport mechanism that was jointly developed and specified by several manufacturers of lighting equipment.

It is essentially a network connected by a pair of cables and powered by a power supply. The common platform of DALI enables equipment from different manufacturers to be connected together. ABB's DALI is designed to work with all DALI-compliant equipment displaying the DALI logo.

An international standard for communication, DALI allows individual ballasts to "talk" to the user and allows the user to "talk" back via DALI controllers.

Put simply, DALI (digital addressable lighting interface) is a two-way communication system that brings digital technology to lighting.



**DALI** is a testing and control system that offers both flexibility and reliability.

### Bus wiring

In terms of wiring a DALI system also includes the bus wires that are used to connect together the DALI terminals of the various devices in the system:

- Standard 2-core cable (1.5mm<sup>2</sup>)
- 5-core cable possible to enable power and data
- Polarity free & free wiring topology
- maximum 64 devices per subnet (Hub/Routers)
- maximum 300m cabling
- maximum 250mA device consumption

### Control devices

Control devices can provide information to other control devices and can send commands to control gear. Input devices are a type or a part of a control device that provides some information. Application controllers are also a type or a part of a control device and are the decision makers in a DALI system – for example, they can send commands to control gear to modify the lighting or test an emergency lighting system.

### Bus power supplies

At least one bus power supply must be present in a DALI system. This is necessary to allow both communications on the bus, as well as to power any bus-powered devices. The bus power supply does not need to be a separate unit – it could be part of another device such as an DALI control unit or a KNX DALI gateway.

ABB has 3 different power supply options. The central control DALI Touch screen panel, the Elkay power supply or the KNX DALI gateway. Only one power supply is needed in each network.

### Control gear

Control gear usually contains the power control circuit to drive lamps, or some other type of output such as on/off switching.



# Elkay

## The easyDALi System

For controlling standard lighting or self-contained emergency lighting, Elkay's easyDALi solution has been designed to make the installation and set-up of an intelligent lighting control system simple, easy and accessible.

— 01 DALI multi-purpose box.

— 02 DALI power supply unit.

— 03 DALI remote controller.

Through its ease of installation and commissioning, the need for expensive commissioning tools is removed, reducing project costs and other potential overheads.

Lighting controls, particularly in commercial buildings, can form a key aspect in the drive to reduce energy consumption and carbon emissions, while reducing energy spend. Elkay easyDALi system helps to reduce these lighting costs.

Elkay has achieved this by making the first range of sensors that can automatically configure DALI lighting ballasts, as well as the more commonly used broadcast mode.

In a brand new 'out of the box' installation of new DALI luminaires and with a new Elkay easyDALi PIR, you can simply wire the lighting, the power supply and the PIR together with the multi-purpose box and simply accept the default settings of...

- Broadcast mode
- Timing
- Daylight Harvesting

...and the PIR, with just a few pushes of the remotecontrol, will find and address all luminaire control gear on the network and the installation is complete.

For facility managers and commercial building owners, Elkay's easyDALi system now provides inexpensive control and flexible management of the lighting plan, without the expense of engineers, at the start and during the lifetime of the installation.

A DALI lighting control system can be used to cover a small area of luminaires or can be connected to other DALI devices to create a much larger system. Elkay's easyDALi system can be used to configure up to 64 ballasts or used as part of a much wider overall lighting strategy, connecting many hundreds of separate DALI networks on different floors of a building for example, forming them into a coherent building lighting control system.



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With its simple installation and integration, Elkay's easyDALi range of sensors can automatically detect DALI lighting ballasts, provide presence and absence detection and deliver daylight harvesting to ensure maximum energy efficiency.

Programming is simple for both the installer or systems integrator. The easyDALi system has default settings for broadcast mode, timing and daylight harvesting and a handheld remote control, with only one remote required to operate and programme the system, making it easier for end users to configure lighting that covers both personal preference while being energy efficient.

The remote can also be used by the installer or systems integrator to program the system, with specific installer modes for the discovery of ballasts, programming of luminaires and room timing options for example.

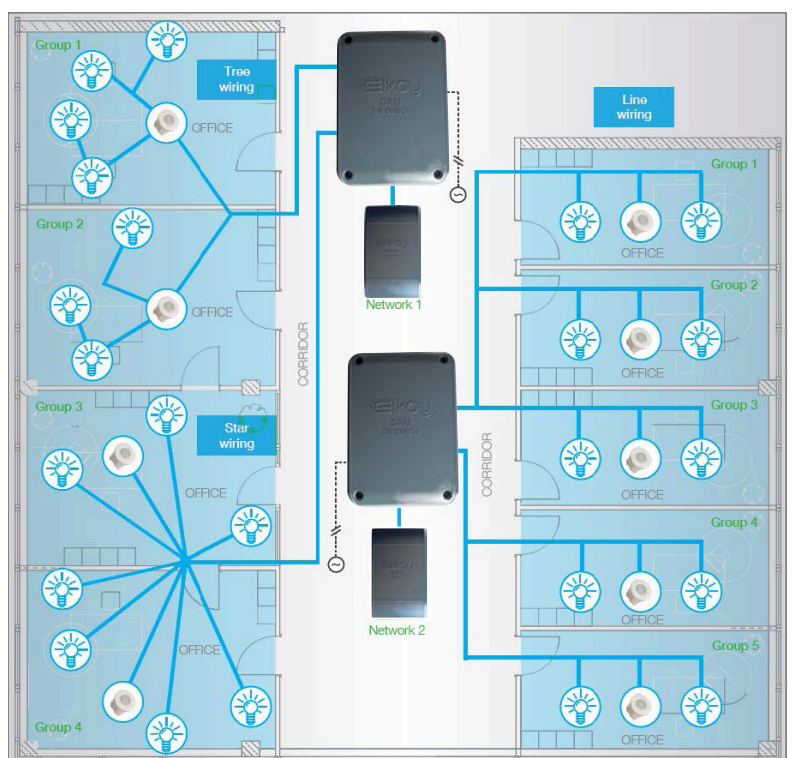
Elkay's easyDALi solution has been designed to make installation and set-up of an intelligent lighting control system simple, easy and accessible.

#### What can you do with the system?

- Fit into New DALI networks
- Join existing groups in a network
- Use broadcast mode to control everything in the network and will control even brand new non-configured luminaires
- Set up brand new luminaires with groups.
- Replace existing DALI PIRs even if manufactured by a competitor provided the group number is known

04 DALI  
easyDALi PIR.

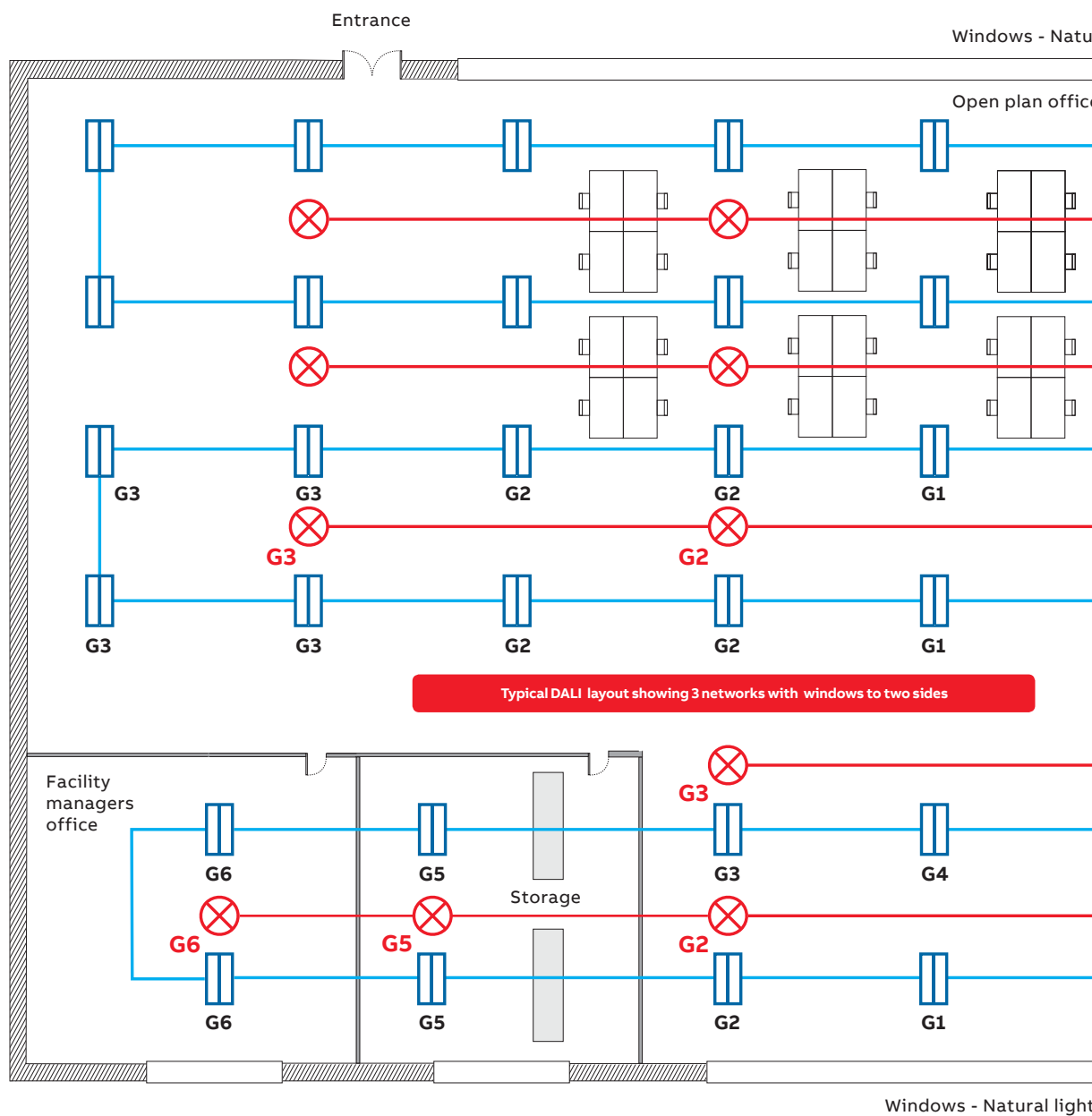
05 DALI system  
network example.








# Elkay easyDALI range

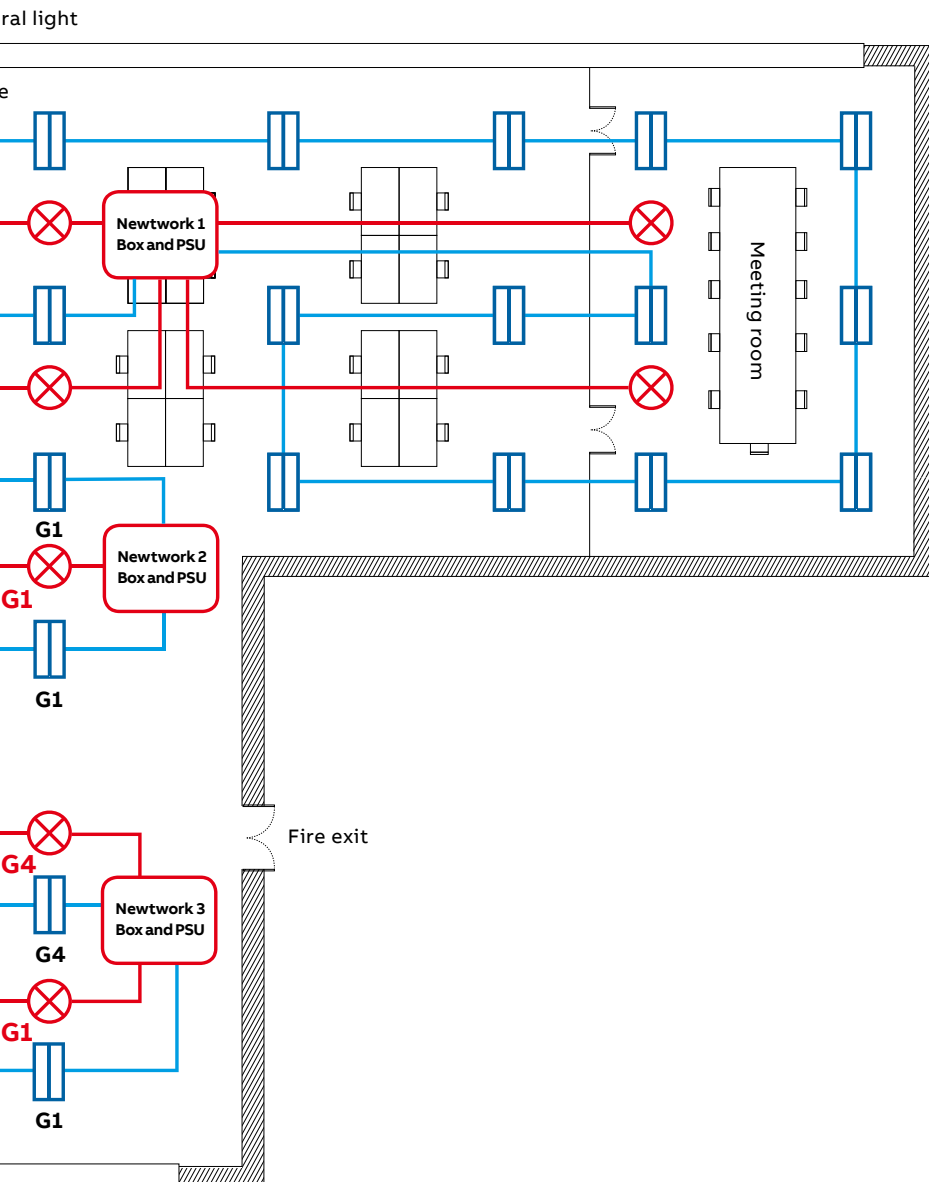
## Product applications

- 01 Open plan office.
- 02 Meeting room.
- 03 Outdoor area.
- 04 Warehouse office.



### Key

-  easyDALI PIR sensor
-  5 core cable to fittings
-  2 core cable to DALI sensors
-  DALI multi purpose box and power supply unit
-  Luminaire



The lighting plan shows the positions of the luminaires and the position of the easyDALi PIR sensors. Because of direct light on both sides of the building from the windows the design team took the decision to split the networks to keep the central section at a higher illumination level. Network 1 and 3 can be set to harvest the daylight entering the window and thus substantially reduce the lighting energy costs on this floor of the building.

Each easy DALI PIR is control specific adjacent lights and is easily addressed in minutes at the touch of a button from the remote. Simple installation and simple ongoing maintenance and control.

The sensors are connected back to the multipurpose connection box via 2 core cable and the luminaires are connected in 5 core cables. The advantage of the easyDALi system is there is no need for expensive gateways or connectors allowing installer choice of cable and cheaper purchase costs than a pre-wired and connected lead.

01



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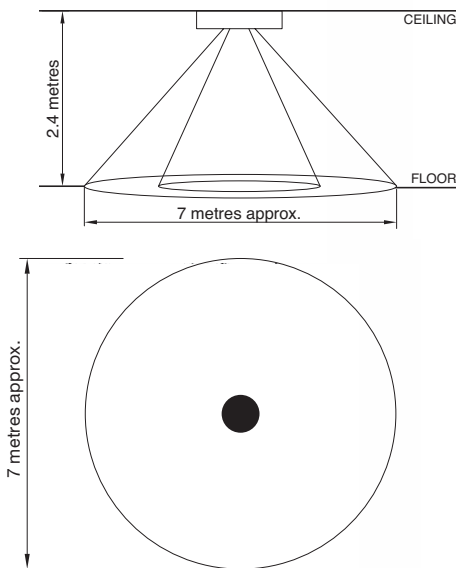
Elkay easyDALi range  
easyDALi PIR



01 Ceiling mount PIR  
sensor detection  
diagram.

easyDALi PIR

Part No.	Type	Finish	GID No.
374-CMPIRDALI	easyDALi PIR	White	7TCA299030R0032



Description

The ceiling mounted Elkay easyDALi PIR has full DALI flexibility and is the intelligent sensor element of the Elkay easyDALi system, automatically addresses the lighting ballasts without the need for expensive controllers.

The ceiling mounted Elkay easyDALi PIR has full DALI flexibility and is the intelligent sensor element of the Elkay easyDALi system, automatically addressing the lighting ballasts without the need for expensive programming controllers.

The PIR is switched on by the detection of moving body heat within a specified range. When this moving body heat is no longer detected the unit will dim down the luminaires and eventually switch off. It will also automatically harvest available daylight to maximise energy savings.

With the dual purpose remote control it is possible to set dimming time delays and Room and Corridor options. There are also helpful coloured feedback LEDs to make programming easier.

Key features:

- Presence and absence detection
- Automatic daylight harvesting
- Settable time modes including 4 room options and 4 corridor options
- Basic Luminaire set up without commissioning tools
- Broadcast and group functions
- Manual Lux Level and sensitivity control
- Walk Test mode
- 360° Detection
- 6-7m detection range
- Coloured feedback LEDs
- Can control LED and fluorescent DALI luminaires
- Lifetime adjustment with dual purpose remote control

Typical applications:

- Suitable for commercial and institutional DALI lighting applications



## Elkay easyDALi range

### easyDALi remote control



#### Description

The Elkay easyDALi remote control is an ergonomic hand held device to program and adjust sensors in the Elkay easyDALi range.

Consisting of eight soft touch buttons to control the Elkay easyDALi PIR, It can program basic installation and commissioning functionality. It also has a hidden button that changes the remote control from user mode to Installer Mode

#### Key features:

- Dual purpose DALI Remote Control
- For use with Elkay easyDALi system
- User mode for day to day control
- Override on/off
- Illumination adjustment
- Scene selection
- Fixed illumination settings
- Reset to daylight harvesting
- 25% brightness level
- 50% brightness level
- 100% brightness level
- Installer configuration tools

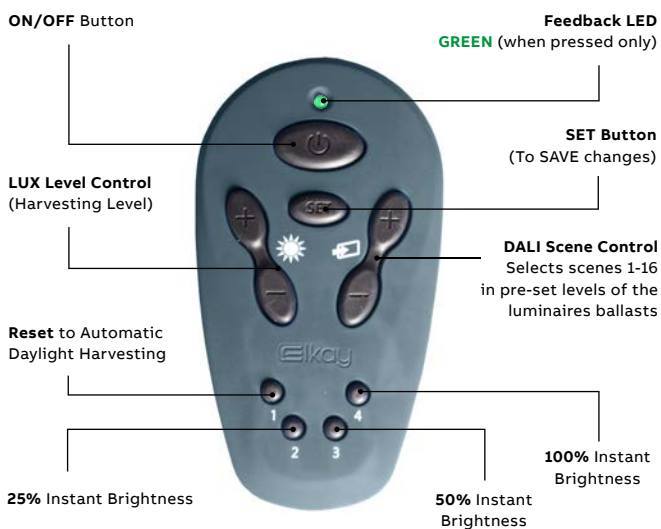
#### Typical applications:

- Suitable for commercial and institutional DALI lighting applications

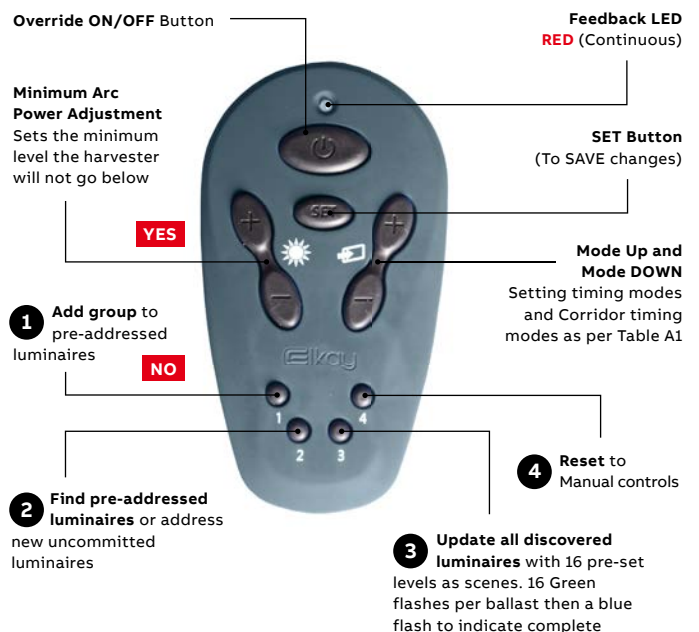
— 01 User modes.  
— 02 Installer modes.

#### easyDALi remote control

Part No.	Type	Finish	GID No.
374-DREM	DALI remote controller	Grey	7TCA299030R0034



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02

## Elkay easyDALi range

### easyDALi multi-purpose box & power supply unit



#### Typical applications:

- For use with Elkay easyDALi system
- Suitable for lighting commercial and institutional applications luminaires

#### Description

The Multi-Purpose Box gives installers maximum flexibility and true freedom in building a DALI system by allowing them to use their OWN cable choice without needing expensive connectors. the box allows the installer to either use it to connect up multiple strings of DALI PIRS OR allows them to connect up to 10A of lighting loads or use it for both.

#### Key features:

- DALI Multi-Purpose Box for maximum connection flexibility
- Connects up multiple strings of DALI PIRS and lighting
- Maximum 10A rating per box
- 8 Multiple connections per box
- Connects power supply for Elkay easyDALi network
- Can control LED and fluorescent DALI luminaires

#### easyDALi multi-purpose box

Part No.	Type	Finish	GID No.
374-DMBOX	DALI multi-purpose box	Grey	7TCA299030R0033



#### Description

Essential to power the network of easyDALi PIR sensors and DALI luminaire ballasts connected into the system.

#### Key features:

- For use with Elkay easyDALi system
- Powers DALI network of PIRS and lighting ballasts
- Thermal and overload protection
- Connected to multi-purpose connection box
- 18V d.c. 250mA

#### Typical applications:

- For use with Elkay easyDALi system
- Suitable for lighting commercial and institutional applications

#### easyDALi power supply unit

Part No.	Type	Finish	GID No.
374-PSU	DALI power supply unit	Grey	7TCA299030R0035

## Elkay easyDALi range

### Product specification and data



#### Product specification and data

The Elkay easyDALi PIR needs only four elements to build a system:

	Elkay easyDALi PIR	Elkay easyDALi dual purpose remote control	Elkay easyDALi power supply	Elkay easyDALi multi-purpose box
Part No.	374-CMPIRDALI	374-DREM	374-PSU	374-DMBOX
GID code	7TCA299030R0032	7TCA299030R0034	7TCA299030R0035	7TCA299030R0033
Features	<ul style="list-style-type: none"> <li>– Presence and Absence Detection</li> <li>– Automatic Daylight Harvesting</li> <li>– Settable Time Modes including 4 Room Options and 4 Corridor Options</li> <li>– Basic Luminaire set up without commissioning tools</li> <li>– Broadcast and Group Functions</li> <li>– Manual Lux Level and Sensitivity Control</li> <li>– Walk Test</li> <li>– 360° Detection</li> <li>– 6-7m detection range</li> <li>– Coloured Feedback LEDs</li> <li>– Can control LED and fluorescent DALI luminaires</li> </ul>	<ul style="list-style-type: none"> <li>– Dual Purpose control options for End user and Installers</li> <li>– Sets all non-default functions</li> <li>– Sets Timing Room Modes and Corridor Modes</li> <li>– Sets Min Arc Levels</li> <li>– 25%, 50% and 100% brightness pre sets</li> <li>– Override Functions</li> <li>– Remote Lux Control</li> <li>– Remote Feedback LEDs</li> <li>– 3 x AAA Batteries supplied</li> </ul>	<ul style="list-style-type: none"> <li>– For use with Elkay easyDALi system</li> <li>– Powers DALI network of PIRS and lighting ballasts</li> <li>– Thermal and overload protection</li> <li>– Connected to multi-purpose connection box</li> <li>– 18V d.c. 250mA</li> </ul>	<ul style="list-style-type: none"> <li>– Maximum 10A rating per box</li> <li>– 8 Multiple connections per box</li> <li>– Connects power supply for Elkay easyDALi network</li> <li>– Can control LED and fluorescent DALI luminaires</li> </ul>

## Technical

### Wiring diagrams

01 Typical circuit for corridor lighting (i.e. Lights will stay on until last timer goes off).

02 Typical circuit for staircase lighting where the Live and Switch Live are at different positions.

03 Typical circuit for corridor lighting (i.e. Lights will stay on until last timer goes off).

#### Columbus® pneumatic timer

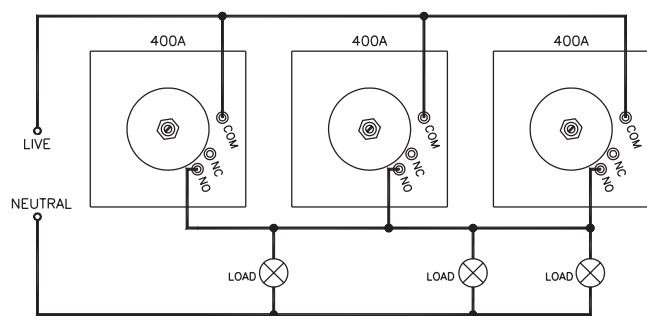
##### Columbus® pneumatic timer fitting

400A Single contact push button timer

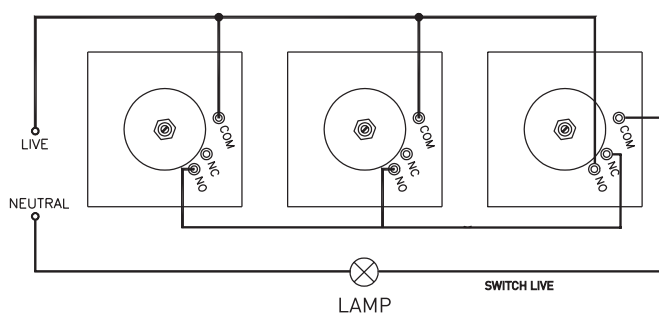
400A-3 Double contact push button timer

##### Rating at 240V a.c.

- Incandescent 6A
- Compact Fluorescent 3A
- Resistive 6A (max 6 Fittings)
- Time Delay 5sec - 5min
- Fluorescent 3A (max 6 Fittings)



01



02

#### Columbus® electronic timer

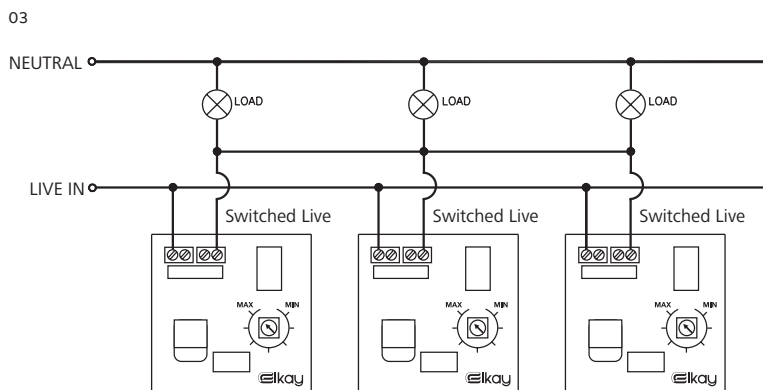
##### Columbus® electronic timer fitting

400E

##### Rating at 240V a.c.

- 2A All load types

**NOTE:** Capacitor will be required when switching compact fluorescent or very low power lighting. For example: 2D fittings, energy saving lamps, LEDs or any low power consuming loads and must be used across contactors.



03

#### IMPORTANT NOTICE:

All wiring should be carried out by a competent person or a qualified Electrician in accordance with the current IET Wiring Regulations. If you believe the unit is faulty call Elkay technical on 01675 468200 or return to place of purchase.

## Technical

### Wiring diagrams

01 3748-1 / 374B-1FPC  
Wiring diagram.

02 Ceilingmount PIR  
sensor detection  
diagram.

03 320A-1 Wiring  
diagram.

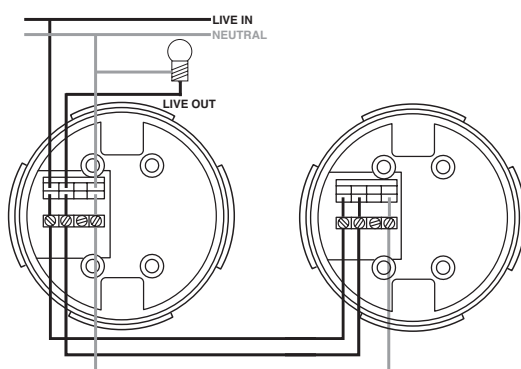
#### Ceilingmount PIR – 3 Wire

##### Ceilingmount PIR fitting – 3 Wire\*

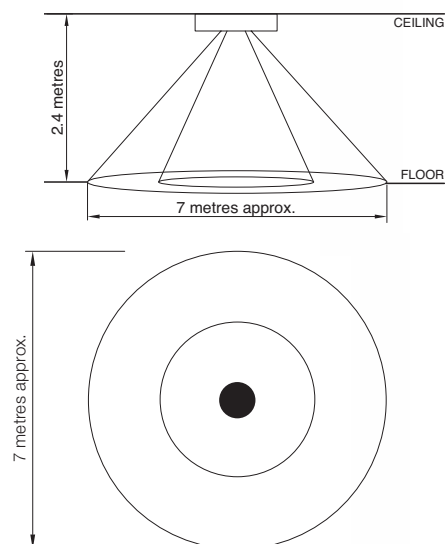
374B-1, 374B-1FPC

##### Rating at 240V a.c.

- 10A



01



02

#### Remote timer

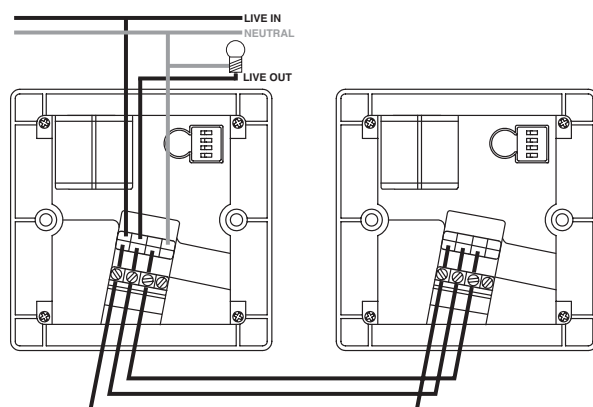
##### Remote timer fitting/ Slave fitting – 3 Wire

320A-1

##### Rating at 240V a.c.

- All load types 16A
- Time Delay 2min - 2h
- Slave options  
(350A-3, 360A-3, 376A-3)
- Momentary switches can also be  
used with Remote Timer

**NOTE:** Can also be used with  
momentary switches.  
Contact Elkay technical for details  
01675 468222.



Remote Timer 320A-1

Slave OR Momentary

03

\* See page 45 for 3 Wire  
dipswitches.

#### IMPORTANT NOTICE:

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## Technical

### Wiring diagrams

01 PIR timer wiring diagram.

02 Plan view.

03 Side view.

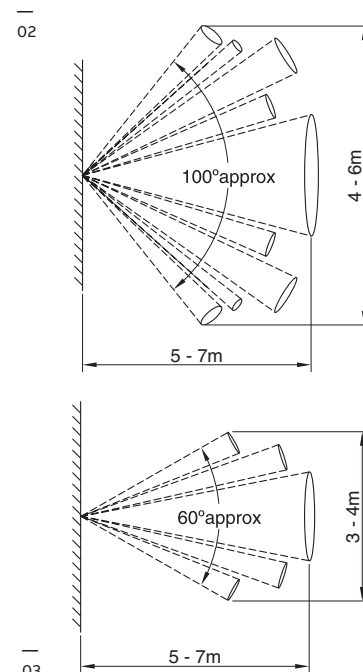
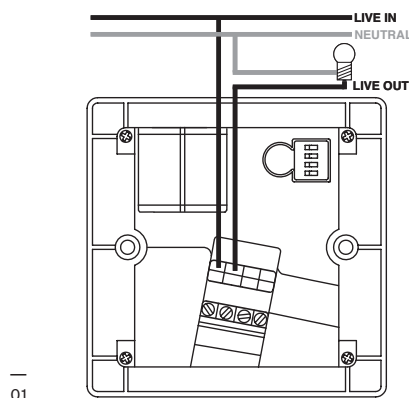
04 Illuminated pushbutton / touch timer wiring diagram.

#### Illuminated PIR timer – 2 Wire

##### PIR timer fitting – 2 Wire\* 376A-1

##### Rating at 240V a.c.

- 16A
- Time Delay 2min - 2h



#### Illuminated pushbutton / touch timer – 2 Wire

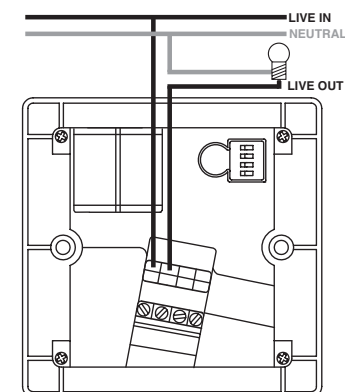
##### Pushbutton / touch timer fitting (illuminated) – 2 Wire\* 350A-1, 360A-1

##### Rating at 240V a.c.

- 16A
- Time Delay 2min - 2h

##### Power factor correction capacitor (PFCC-1)

When using 2 wire units with compact fluorescent or very low power lighting a power factor correction capacitor of 4 microfarads will often be required.



\* See page 45 for 2 Wire  
dipswitches.

\*\* See page 46 for 3 Wire  
dipswitches.

##### IMPORTANT NOTICE:

All wiring should be carried out by a competent person or a qualified Electrician in accordance with the current IET Wiring Regulations. If you believe the unit is faulty call Elkay technical on 01675 468200 or return to place of purchase.

## Technical

### Wiring diagrams

01 PIR timer wiring diagram.

02 Plan view.

03 Side view.

04 Illuminated pushbutton / touch timer wiring diagram.

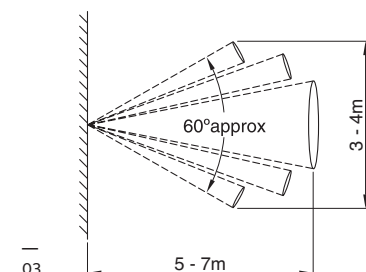
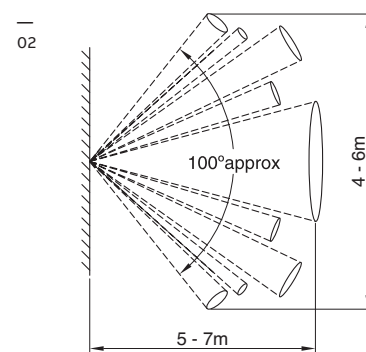
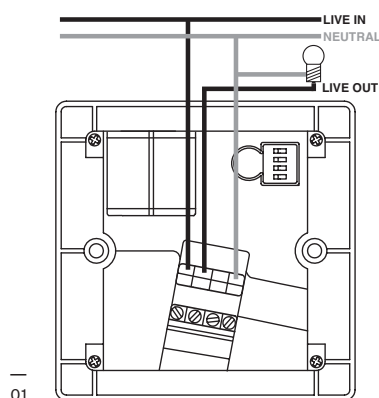
#### Illuminated PIR timer – 3 Wire

##### PIR timer fitting – 3 Wire\*\*

370A-1, 570A-1

##### Rating at 240V a.c.

- 16A
- Time Delay 2min - 2h



#### Illuminated pushbutton / touch timer – 3 Wire

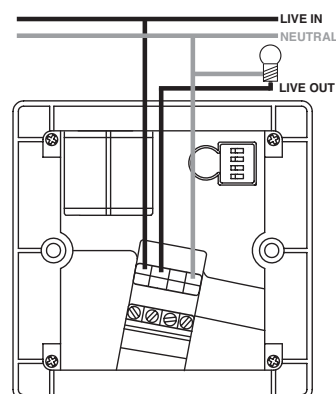
##### Pushbutton / touch timer fitting (illuminated) – 3 Wire\*

3875A-1, 2235A-1, 550A-1, 560A-1

##### Rating at 240V a.c.

- 16A
- Time Delay 2min - 2h

**NOTE:** Capacitor will be required when switching compact fluorescent or very low power lighting. For example: 2D fittings, energy saving lamps, LEDs or any low power consuming loads and must be used across contactors.



\* See page 45 for 2 Wire dipswitches.

\*\* See page 46 for 3 Wire dipswitches.

#### IMPORTANT NOTICE:

All wiring should be carried out by a competent person or a qualified Electrician in accordance with the current IET Wiring Regulations. If you believe the unit is faulty call Elkay technical on 01675 468200 or return to place of purchase.

## Technical

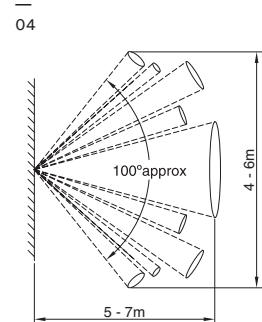
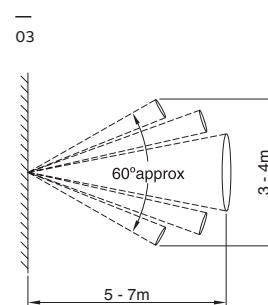
### Wiring diagrams

01 Single switching.

02 Multiple switching.

03 Plan view (for all types).

04 side view (for all types).



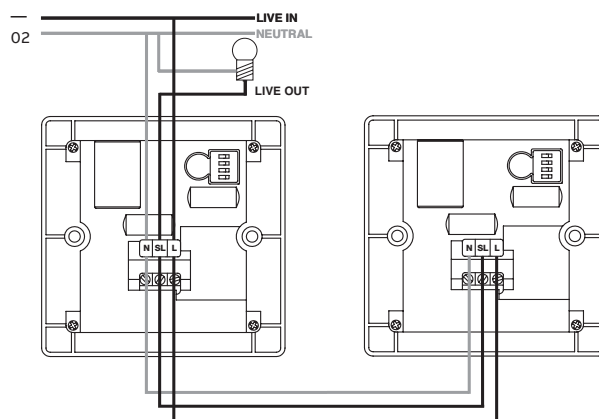
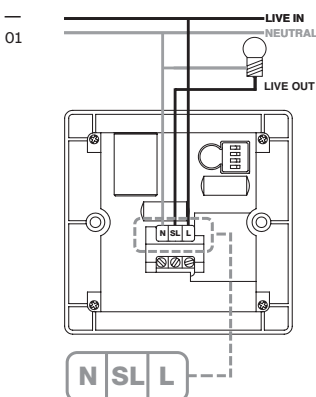
#### Standard pushbutton / PIR timer – 3 Wire (for all load types)

##### Standard pushbutton / Standard PIR timer fitting – 3 Wire\*\*

3875B-1, 370B-1, 550B-1

##### Rating at 240V a.c.

- 10A
- Time Delay 2min - 2h



**NOTE:** Capacitor will be required when switching compact fluorescent or very low power lighting.

For example: 2D fittings, energy saving lamps, LEDs or any low power consuming loads and must be used across contactors.

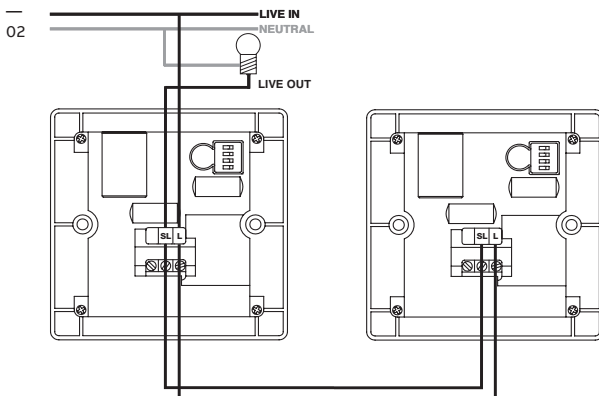
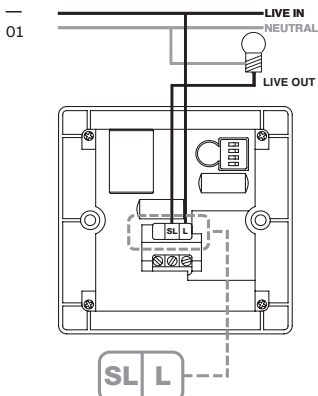
#### Standard pushbutton / PIR timer – 2 Wire (for lighting only)

##### Standard pushbutton / standard PIR timer fitting – 2 Wire (for lighting only)\*

350B-1, 376B-1, 550B-3

##### Rating at 240V a.c.

- 10A
- Time Delay 2min - 2h



**NOTE:** 2 Wire devices not to be used with contactors. Capacitor will often be required when switching compact fluorescent or very low power lighting.

For example: 2D fittings, energy saving lamps, LEDs or any low power consuming loads.

\* See page 45 for 2 Wire dipswitches.

\*\* See page 46 for 3 Wire dipswitches.

##### IMPORTANT NOTICE:

All wiring should be carried out by a competent person or a qualified Electrician in accordance with the current IET Wiring Regulations. If you believe the unit is faulty call Elkay technical on 01675 468200 or return to place of purchase.

Technical

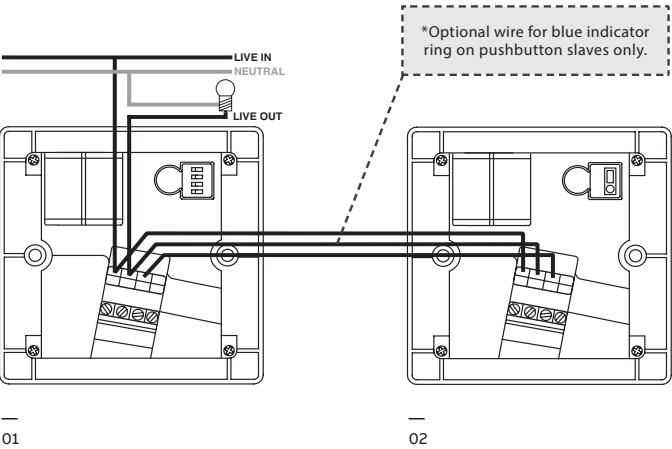
Wiring diagrams

- 01 2 Wire master.
- 02 Slave.
- 03 2 Wire master.
- 04 Slave.

2 Wire master with pushbutton, touch or PIR slave

Pushbutton slave / touch slave / PIR slave fitting (illuminated) / 3 Core connection to master  
350A-3 / 360A-3 / 376A-3

Rating at 240V a.c.



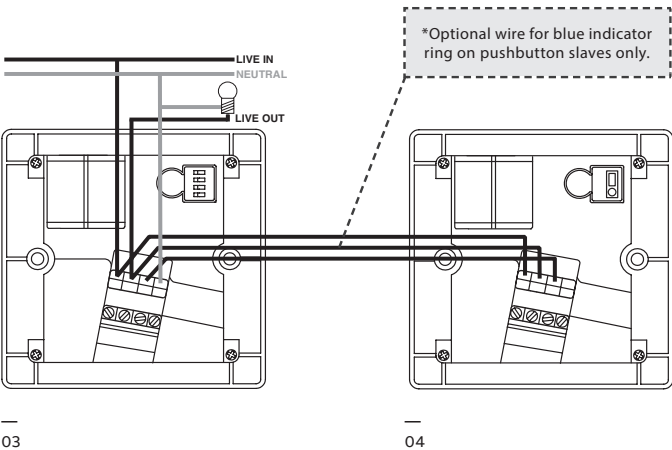
Masters & Slaves – 2 Wire

Masters	Slaves
350A-1	350A-3
360A-1	360A-3
376A-1	376A-3

3 Wire master with pushbutton, touch or PIR slave

Pushbutton slave / touch slave / PIR slave fitting (illuminated) – 3 Core  
350A-3 / 360A-3 / 376A-3

Rating at 240V a.c.



Masters & Slaves – 3 Wire

Masters	Slaves
3875A-1	350A-3
2235A-1	360A-3
370A-1	376A-3
550A-1	–
560A-1	–
570A-1	–
320A-1	Any Slave above

**IMPORTANT NOTICE:**  
All wiring should be carried out by a competent person or a qualified Electrician in accordance with the current IET Wiring Regulations.  
If you believe the unit is faulty call Elkay technical on 01675 468200 or return to place of purchase.



## Technical

### Wiring diagrams

01 Master.

02 Slave.

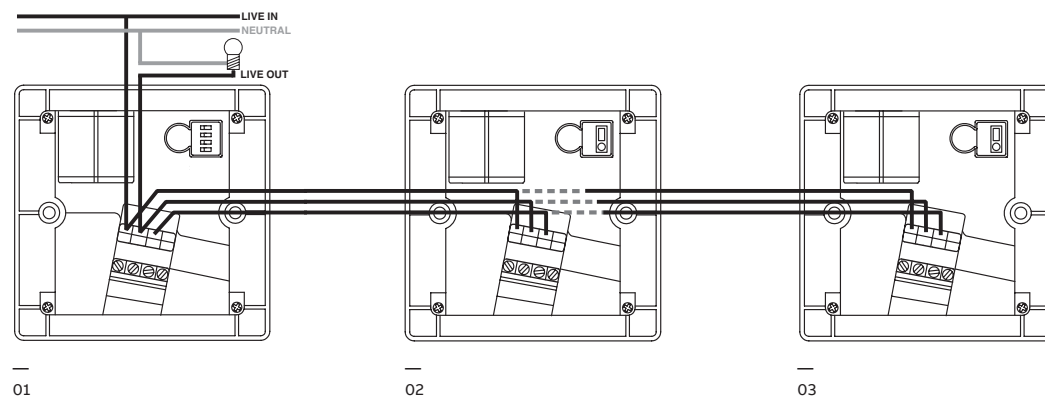
03 Slave.

04 Wiring diagram for a 3 Wire microwave unit.

05 Wiring diagram for additional microwave units.

06 Plan view of microwave pattern.

#### Multiple slave fitting – Illuminated timers



#### Microwave timer fitting

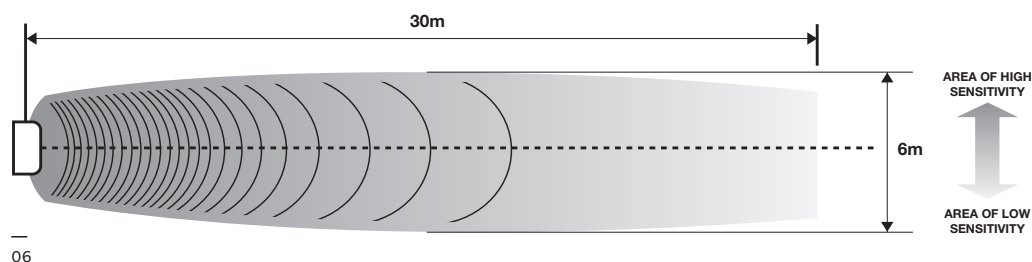
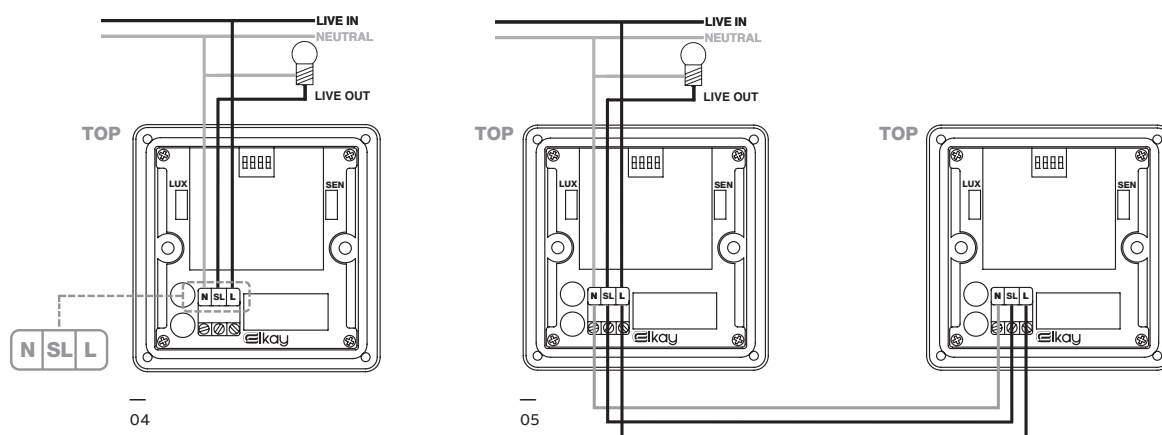
##### Microwave timer fitting – 3 Wire\* 380A-1

##### Rating at 240V a.c.

- 16A
- Time Delay 2min - 2h

##### Power factor correction capacitor (PFCC-1)

When using 2 wire units with compact fluorescent or very low power lighting a power factor correction capacitor of 4 microfarads will often be required.



#### IMPORTANT NOTICE:

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\* See page 45 for 2 Wire dipswitches.

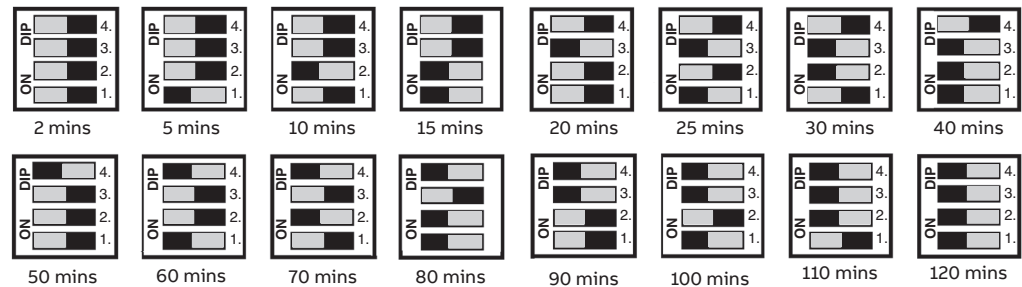
## Technical

### Timing diagrams

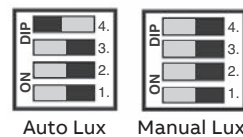
**\* PLEASE NOTE:**

The **black bar** denotes the position of the dip switch.

#### Dipswitches for microwave timer – 380A-1\*



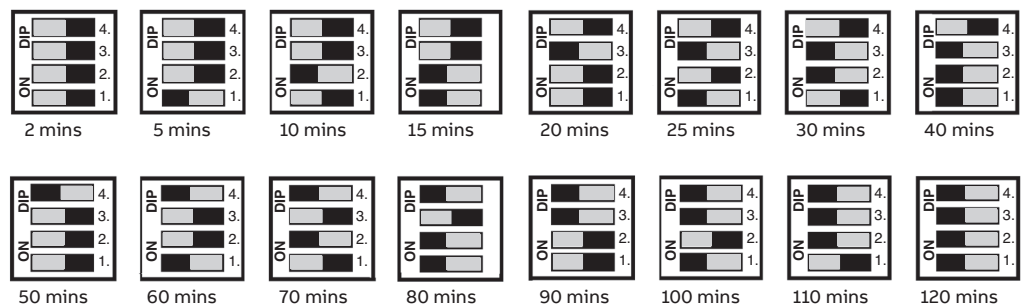
#### Dipswitches for ceilingmount PIR & fireproof ceilingmount PIR – 374B-1, 374B-1FPC\*



Dip switch 4 is only used for Setting Automatic (150 Lux) or Manual Lux ONLY.



#### Dipswitches for 3 Wire illuminated switches & wall sensors (except 374B-1, 374B-1FPC)\*



#### Illuminated – 3 Wire

3875A-1 / 2235A-1 / 370A-1

550A-1 / 560A-1 / 570A-1

#### IMPORTANT NOTICE:

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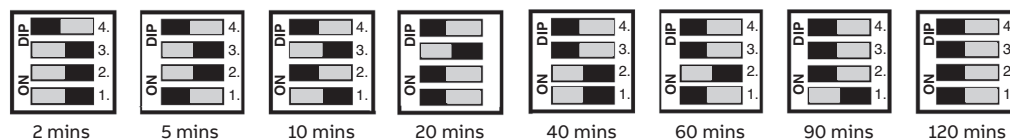
## Technical

### Timing diagrams

**\* PLEASE NOTE:**

The **black bar** denotes the position of the dip switch.

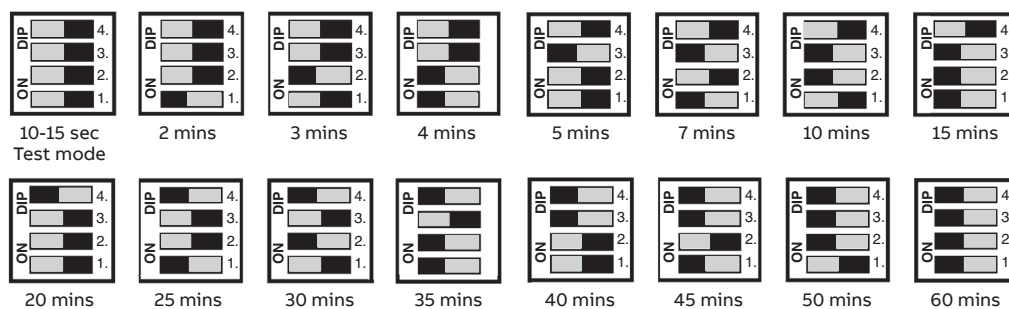
#### Dipswitches for 2 Wire switches & wall sensors\*



#### Illuminated Master Timers – 2 Wire

350A-1 / 360A-1 / 376A-1

#### Dipswitches for 2 and 3 wire Standard switches and wall sensors\*



#### Standard - 2 Wire

350B-1 / 376B-1 / 550B-3

#### Standard - 3 Wire

3875B-1 / 370B-1 / 550B-1

**IMPORTANT NOTICE:**

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**Additional information**

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