

Universal Controller for 415VAC 3-Phase Motors with Eclipse® Operating System (EOS)

Controller with Eclipse® Operating for Commercial Doors, Heavy Duty Roller Shutters,
Sectional Doors, Garage and Sliding doors.

Setup and Technical Information

Important warning and safety instructions

All installations and testing must be done only after reading and understanding all instructions carefully. All wiring should be done only by trained technical personnel. Failing to follow instructions and the safety warnings may result in serious injury and/or damage to property.

Elsema Pty Ltd shall not be liable for any injury, damage, cost, expense or any claim whatsoever to any person or property which may result from improper use or installation of this product.

Risk in the goods purchased shall unless otherwise agreed in written pass to the buyer upon delivery of the goods.

Any figures or estimates given for performance of goods are based upon the company's experience and is what the company obtains on tests. The company will not accept liability for failure to comply with the figures or estimates due to the nature of variable conditions affecting for example Radio Remote Controls.

Elsema Pty Ltd recommends that safety devices such as Photo Electric beam and safety edge sensor are installed on automatic openers.

Please keep this setup instruction for future reference.



Installed by: _____

Service date: _____

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Features

- Adjustable auto close
- Auto-reset thermal protection
- Supports NC or NO limit switch inputs
- External key switch for safety and security
- Dead man controls for open and close buttons
- Automatic ground and travel distance calibration
- Photocell, pedestrian and wireless remote control inputs
- Aux relay output to control courtesy lights and other accessories
- 12VDC output to supply external accessories such as loop detectors, swipe cards etc
- Customised models available upon request

Description

The MCI415 is a motor controller for 3-phase industrial roller door systems designed to operate in high demand environments, including factories, warehouses and logistics hubs. It is built in a powder coated industrial grade metal housing that protects internal electronics from mechanical impacts, corrosion and environmental degradation. The system is driven by the Eclipse® operating system (EOS), which provides real time system diagnostics and precise motor logic control. System status, operational logic and settings are clearly displayed on a large LCD display.

For operational flexibility, the control unit supports multiple control interfaces, including integrated front panel manual buttons, a built-in wireless remote receiver and dedicated terminal inputs for external controls (e.g., induction loop detectors, photoelectric beam and access control systems). To prevent conflicting commands and ensure operational safety, control modes are mutually exclusive and isolated via an integrated physical key switch.

Safety is a key feature of this control box with integrated thermal overload protection to prevent motor damage caused by overheating. This critical function enhances the longevity of the motor, ensuring smooth and reliable operation during heavy duty cycles.



Part Numbers:

| Part Number | Description | Application |
|-------------------|---|---|
| MCi415-2.4 | <p>Suitable for 3-phase motors up to 1 kW (1.3HP). Thermal overload adjustable from 1.6-2.4Amps.</p> <ul style="list-style-type: none"> • UP / DOWN / STOP external push buttons • External key switch | Commercial Doors, Heavy Duty Roller Shutters, Sectional Doors, Garage and Sliding doors |
| MCi415-4.0 | <p>Suitable for 3-phase motors up to 1.6kW (2.2HP). Thermal overload adjustable from 2.4-4.0Amps.</p> <ul style="list-style-type: none"> • UP / DOWN / STOP external push buttons • External key switch | Commercial Doors, Heavy Duty Roller Shutters, Sectional Doors, Garage and Sliding doors |

Key switch



AUTO: When the key is in the AUTO position the controller (motor) can be operated by:

- Wireless remote control
- Push button input on the circuit board which can be used to connect external push buttons, swipe card, loop detectors or keypads
- Stop button on the front of the case

In AUTO mode the Open and Close button on the front of the case are disabled.

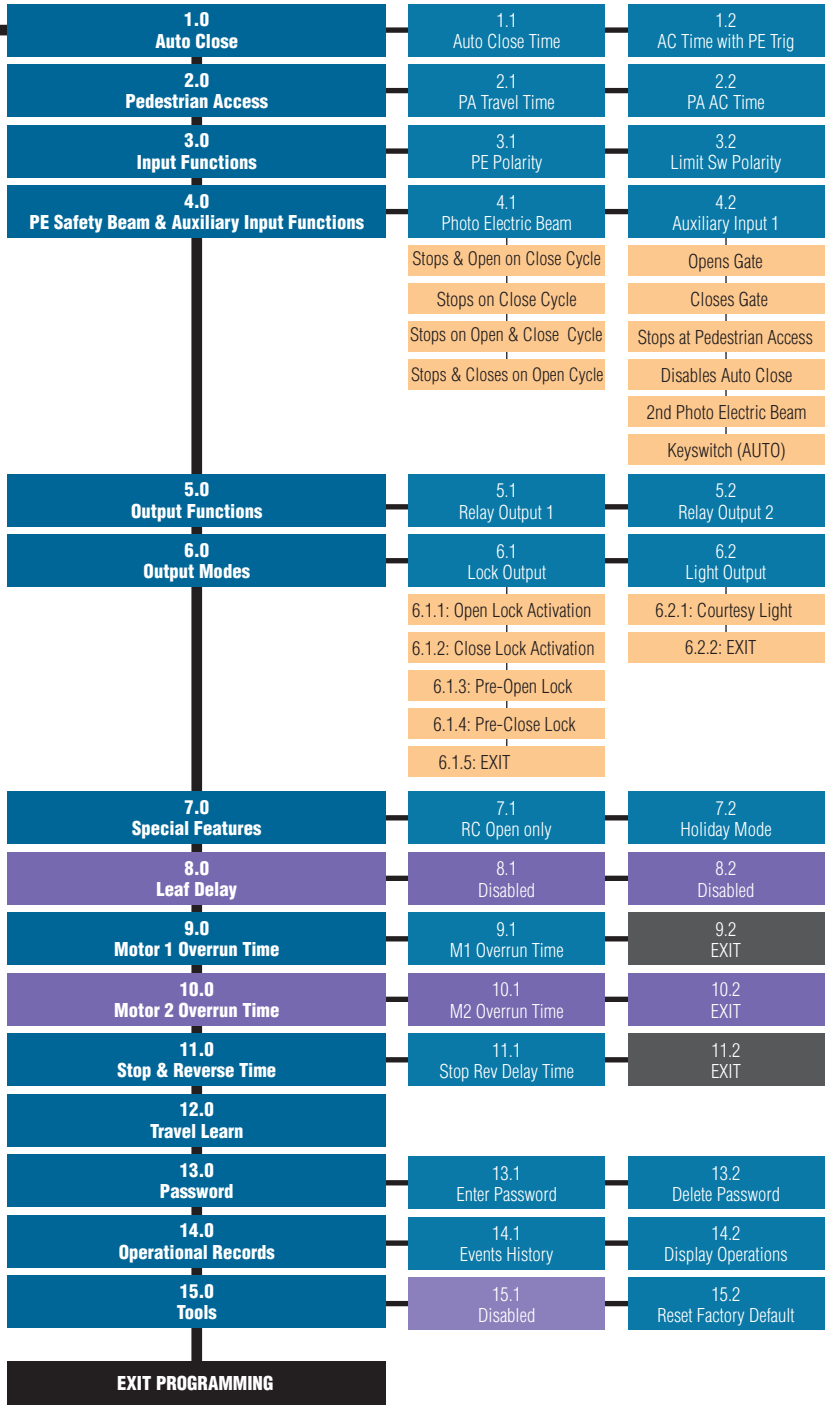
OFF: When the key is in the OFF position, the controller (motor) does not work. The push buttons and the wireless remotes are disabled.

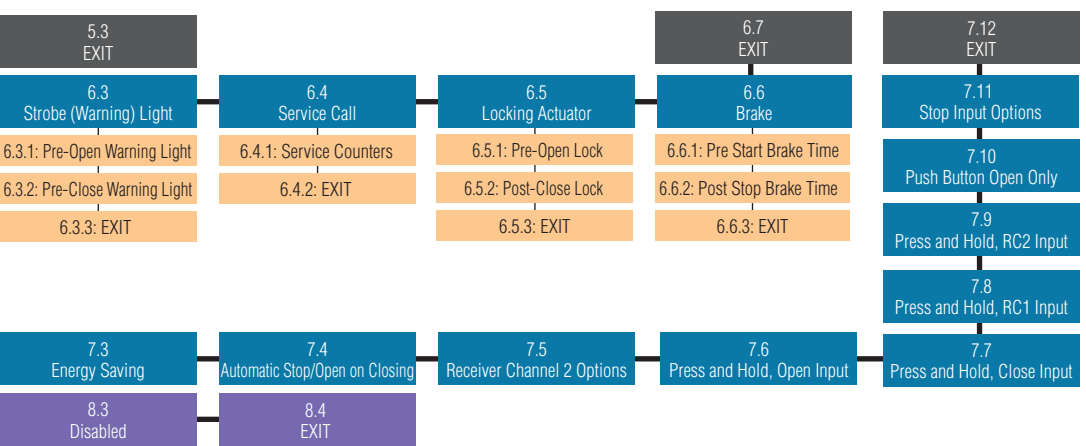
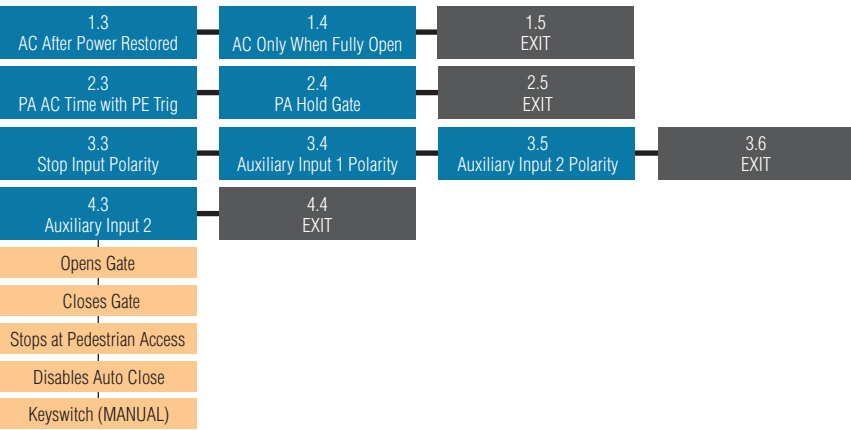
MANUAL: When the key is in the MANUAL position the controller (motor) will operate with the push buttons that are on the front panel and other inputs on the control card. Wireless remote controls are disabled.

Menu Structure

Press Master Control for 2 seconds to enter the menu

**MAIN
SCREEN**





Options are disabled for MCI415



| | |
|----------------------------|---|
| Common | Common terminal for any of the inputs, including push button, open only, close only, stop pedestrian access. |
| Push Button | Used to connect an external push button to operate the gate or door. Normally open input. This input will cycle Open, Stop, Close (OSC). Can be changed to Open Only, if required in menu 7.10. |
| Open Only | This input is connected to the Open button on the front panel. Normally Open input. |
| Close Only | This input is connected to the Close button on the front panel. Normally Open input. |
| Stop | This input is connected to the Stop button on the front panel. Normally Open input. |
| Common | Common terminal for any of the inputs, including push button, open only, close only, stop and pedestrian access. |
| Pedestrian Access | Used to connect an external push button to open gate or door partially for pedestrian access. Normally Open input. |
| Photo Electric Beam | Used to connect a photo electric beam. Factory Default is Normally Closed input. User can change to Normally Open. |
| Common | Common terminal for any of the inputs, including push button, open only, close only, stop and pedestrian access. |
| Auxiliary Input 1 | This input is connected to the keyswitch on the front. Normally Close input. |
| Auxiliary Input 2 | This input is connected to the keyswitch on the front. Normally Close input. |
| Common | Common terminal for any of the inputs, including push button, open only, close only, stop and pedestrian access. |

| | |
|------------------------------|-------------------------------|
| 12-24 Volts AC Supply | Supply connection. |
| VSD 1 | Connected to Contactor coils. |
| VSD 2 | Disabled. |

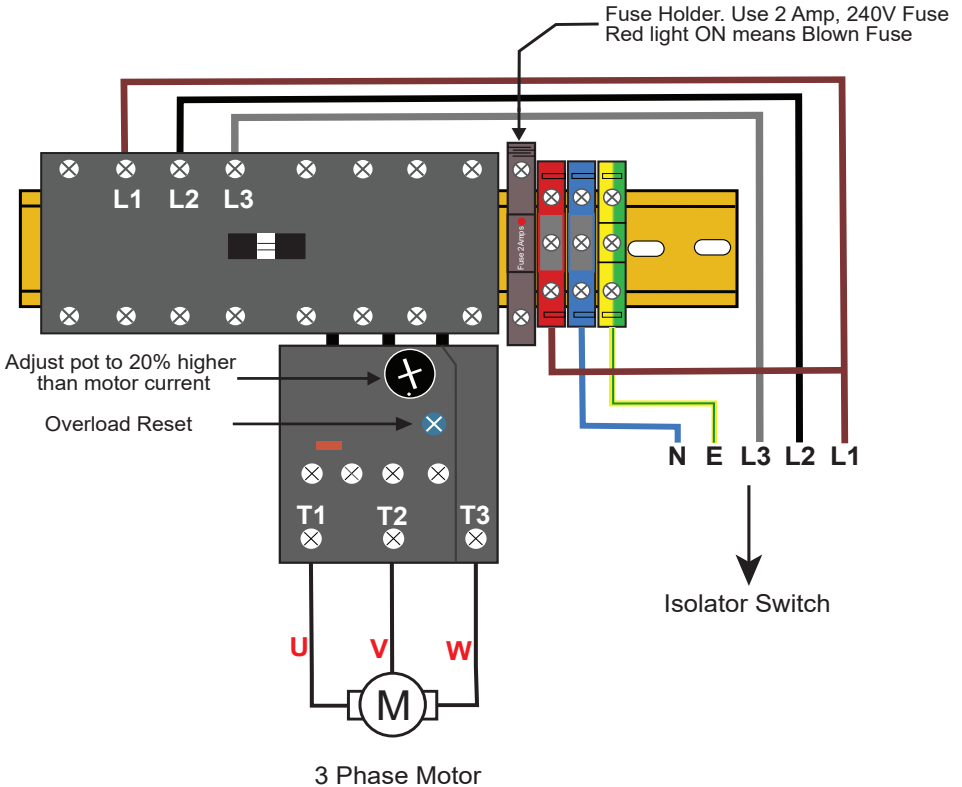
| | |
|-----------------------------|--|
| Motor 1 Limit Switch | If limit switches are used connect them to this terminal. Factory Default Normally Closed. |
| Common | Common terminal for any of the inputs, including push button, open only, close only, stop and pedestrian access. |
| Motor 2 Limit Switch | Disabled. |
| DC Output | 12VDC / 500mA. Use to supply accessories. |
| Output 1 | Voltage free contacts for Lock, Light, Courtesy light or Service call. |

| | |
|-----------------|--|
| Output 2 | Voltage free contacts for Lock, Light, Courtesy light or Service call. |
|-----------------|--|

Wiring diagram for 3-phase with neutral



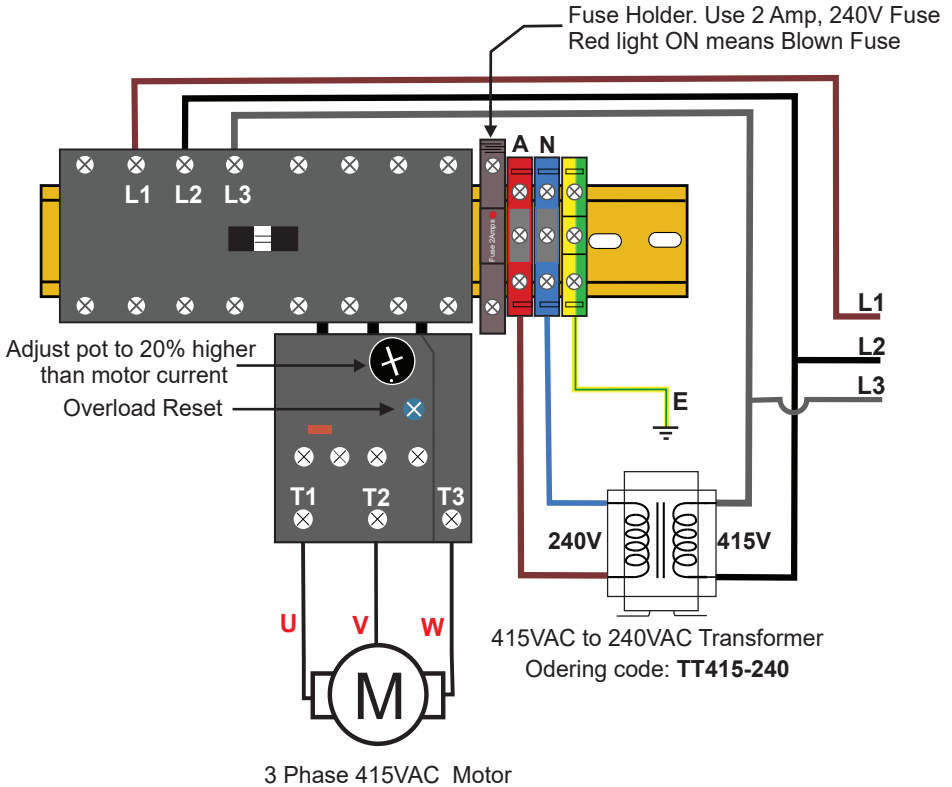
Power supply to the unit should be via a 3-phase isolator switch.
Always switch off power before doing any wiring.



Wiring diagram for 3-phase without neutral



Power supply to the unit should be via a 3-phase isolator switch.
Always switch off power before doing any wiring.



Setup Instructions



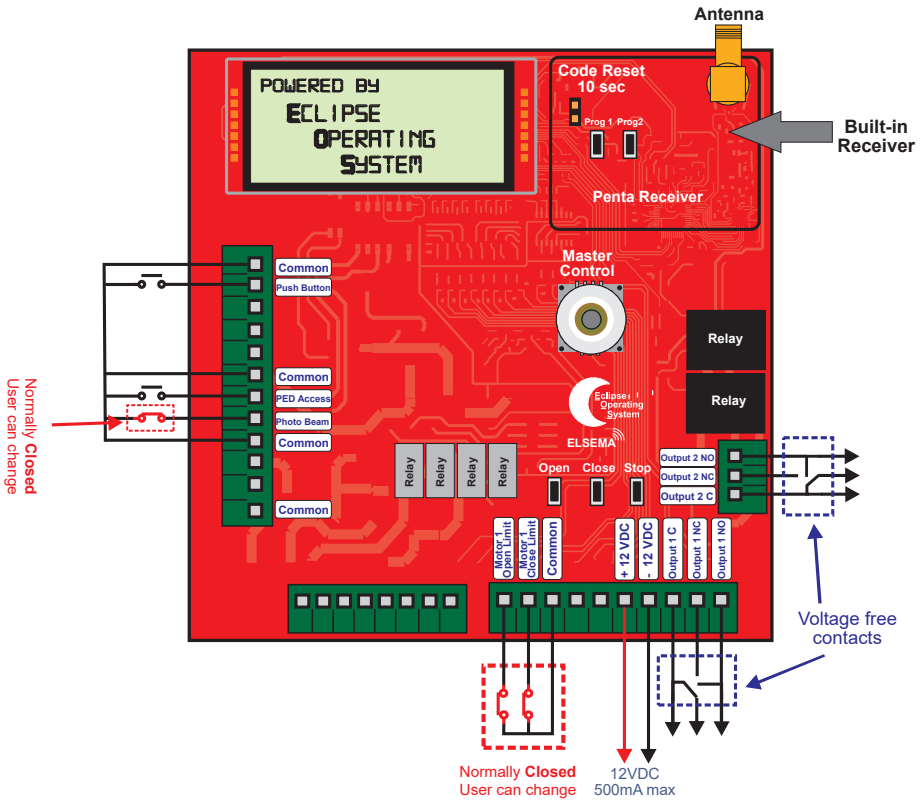
Power supply to the unit should be via a 3-phase isolator switch. Always switch off power before doing any wiring.

Make sure that all the wiring is completed and that the motor is connected to the unit.

Recommended wire strip length should be 12mm for all connections to the plug in terminal blocks.

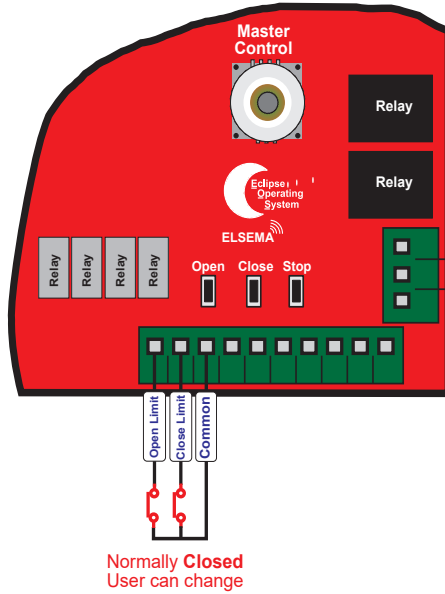
Inputs and Outputs Diagram

The diagram below shows the inputs and outputs available, their factory default settings.



Limit Switches

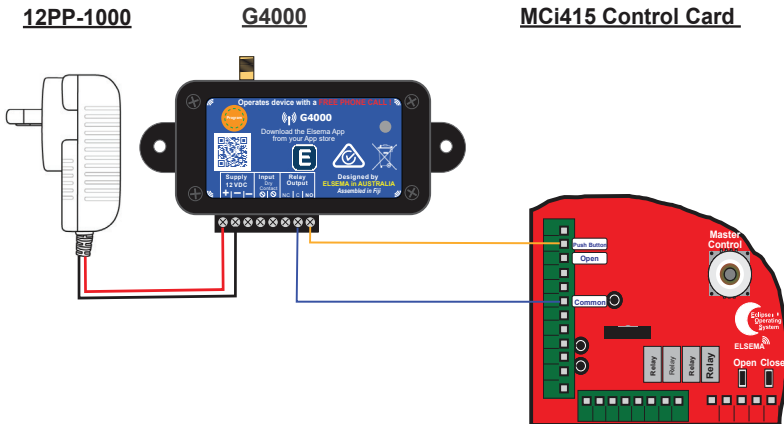
Limit switches must be connected to the MCI control card to determine the end of travel. Limit switch inputs are Normally Closed (NC) by factory default but it can be changed to Normally Open (NO) if required.



Optional Accessory

G4000 - GSM Dialler - 4G Gate Opener

The addition of a G4000 module to Eclipse control cards transforms their functionality by enabling mobile phone operation for gates. This integration allows users to remotely open or close the gate with a free phone call. See the wiring diagram below:



Setup i-Learning Steps:

i-Learn is only required if the travel time is greater than 60 seconds.

1. Enter Menu 12 to start i-Learning
2. Follow the instructions displayed on the LCD screen

Menu 1 – Auto Close (when keyswitch is in Auto position)

Auto Close is a feature that automatically closes the gate after a preset time has counted down to zero. The control card has a normal Auto Close and several special Auto Close features each one having its own countdown timers.

Elsema Pty Ltd recommends a Photoelectric Beam to be connected to the control card when any of the Auto Close options are used.

If the Stop input is activated Auto Close is disabled for that cycle only.

Auto Close timer will not count down if any input is held active.

| Menu No. | Auto Close Features | Factory Default | Adjustable |
|----------|---------------------------------------|-----------------|-----------------|
| 1.1 | Normal Auto Close | Off | 1 - 600 seconds |
| 1.2 | Auto Close with Photoelectric Trigger | Off | 1 - 60 seconds |
| 1.3 | Auto Close after Power Restored | Off | 1 - 60 seconds |
| 1.4 | Auto Close Only when Fully Opened | Off | Off / On |
| 1.5 | Exit | | |

1.1 Normal Auto Close

The gate will close after this timer has counted down to zero.

1.2 Auto Close with Photoelectric Trigger

This Auto Close starts counting down as soon as the Photoelectric Beam has been cleared after a trigger even if the gate is not fully open. If there is no Photoelectric Beam trigger the gate will not Auto Close.

1.3 Auto Close after Power Restored

If the gate is open in any position and then there is a power failure, when power is reconnected the gate will close with this timer.

1.4 Auto Close Only when Fully Opened

The auto close timer will not time out unless the gates are fully opened.

Menu 2 – Pedestrian Access

There are several types of Pedestrian access modes. Pedestrian access opens the gate for a short time to allow someone to walk through the gate but does not allow a vehicle access.

Elsema Pty Ltd recommends a Photoelectric Beam to be connected to the control card when any of the Auto Close options are used.

| Menu No. | Pedestrian Access Features | Factory Default | Adjustable |
|----------|---|-----------------|----------------|
| 2.1 | Pedestrian Access Travel Time | 5 seconds | 3 - 20 seconds |
| 2.2 | Pedestrian Access Auto Close Time | Off | 1 - 60 seconds |
| 2.3 | Pedestrian Access Auto Close Time with PE trigger | Off | 1 - 60 seconds |
| 2.4 | Pedestrian Access with Hold Gate | Off | Off / On |
| 2.5 | Exit | | |

2.1 Pedestrian Access Travel Time

This sets the time the gate opens when a pedestrian access input is activated.

2.2 Pedestrian Access Auto Close Time

This sets the countdown timer for automatically closing the gate when a pedestrian access input is activated.

2.3 Pedestrian Access Auto Close Time with PE Trigger

This Auto Close starts counting down as soon as the Photoelectric Beam has been cleared after a trigger, when the gate is in the Pedestrian Access position. If there is no Photoelectric Beam trigger the gate will remain in Pedestrian Access position.

2.4 Pedestrian Access with Hold Gate

If the pedestrian access hold gate is ON and the Pedestrian access input is permanently activated the gate will remain open in the pedestrian access position. Open input, Close input, Push Button input and remote controls are disabled. Used in Fire Exit applications.

Menu 3 – Input Functions

This allows you to change the polarity of photoelectric beam, limit switch inputs, Stop Input and Auxiliary Input.

| Menu No. | Input Functions | Factory Default | Adjustable |
|----------|-----------------------------|-----------------|--|
| 3.1 | Photoelectric Beam Polarity | Normally Closed | Normally Closed / Normally Open/ Monitored PE Beam |
| 3.2 | Limit Switch Polarity | Normally Closed | Normally Closed / Normally Open |
| 3.3 | Stop Input Polarity | Normally Open | Normally Closed / Normally Open |
| 3.4 | Auxiliary Input 1 | Normally Closed | Normally Closed / Normally Open / |
| 3.5 | Auxiliary Input 2 | Normally Closed | Normally Closed / Normally Open / |
| 3.6 | Exit | | |

Menu 4 – Photoelectric Beam

The Photoelectric Beam or sensor is a safety device which is placed across the gate and when the beam is obstructed it stops a moving gate. The operation after the gate stops can be selected in this menu.

Elsema sells several different types of photoelectric beams. We stock Retro-Reflective and Through Beam photoelectric beams.



PE1500
(Polarised Retro-Reflective Type)



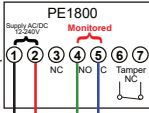
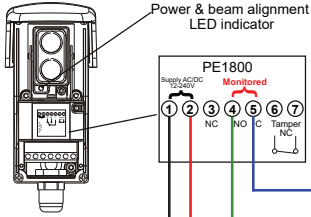
PE24
(Through-Beam type)

Elsema Pty Ltd recommends a Photoelectric Beam to be connected to the control card when any of the Auto Close options are used.

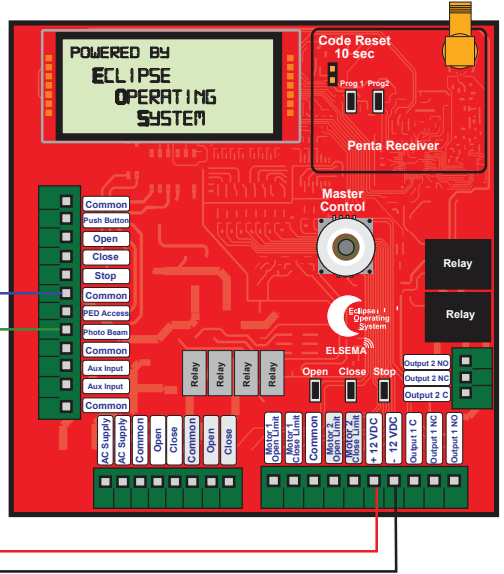
| Menu No. | Photoelectric Beam Feature | Factory Default | Adjustable |
|----------|----------------------------|---|--|
| 4.1 | Photoelectric Beam | PE Beam stops and opens gate on close cycle | PE Beam stops and opens gate on close cycle ----- PE Beam stops gate on close cycle ----- PE Beam stops gate on open & close cycle ----- PE Beam stops and closes gate on open cycle |
| 4.2 | Auxiliary Input 1 | Keyswitch (Auto) | Opens gate ----- Closes gate ----- Stops at Pedestrian Access ----- Disables Auto Close ----- 2nd Photoelectric Beam* ----- Keypress (Auto) |
| 4.3 | Auxiliary Input 2 | Keyswitch (Manual) | Opens gate ----- Closes gate ----- Stops at Pedestrian Access ----- Disables Auto Close ----- Keypress (Manual) |
| 4.4 | Exit | | |

Photo Beam Wiring

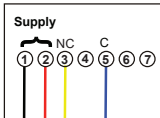
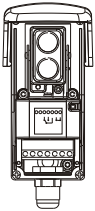
Single PE1800



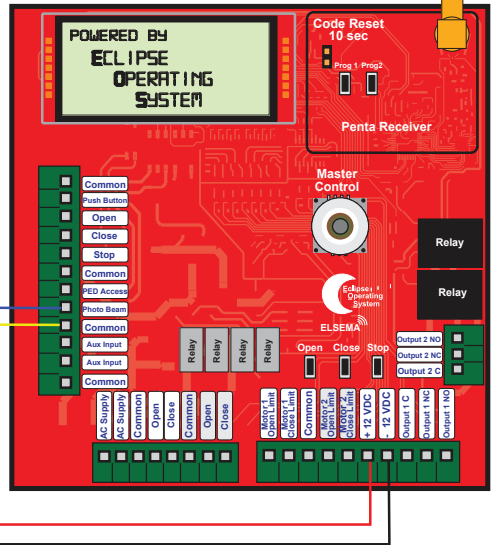
Select "Monitored PE1800" in Menu 3.1



Single PE1500



Select "Normally Close" in Menu 3.1



Menu 5 – Relay Output Functions

The control card has two relay outputs, Output 1 and Output 2. The user can change the function of these outputs to lock courtesy light, service call, strobe (Warning) light indicator, locking actuator, gate open (gate not fully closed) indicator or brake.

Output 1 is a voltage free relay output with common, normally open and normally closed contacts. Factory default is lock release function.

Output 2 is a voltage free relay output with common, normally open and normally closed contacts. Factory default is courtesy light function.

| Menu No. | Relay Output Function | Factory Default | Adjustable |
|----------|-----------------------|-----------------|--|
| 5.1 | Relay Output 1 | Lock | Lock ----- Courtesy Light ----- Service Call ----- Strobe (Warning) Light ----- Locking Actuator ----- Gate open ----- Brake |
| 5.2 | Relay Output 2 | Courtesy Light | Lock ----- Courtesy Light ----- Service Call ----- Strobe (Warning) Light ----- Gate Open ----- Brake |
| 5.3 | Exit | | |

Lock Output

This output is used to power an electrical lock. The factory default for the lock is on output 1. Output 1 is a voltage-free relay contact with common, normally open and normally closed contacts. Having it voltage-free allows you to connect either 12VDC/AC, 24VDC/AC or 240VAC to the common. The normally open contact drives the lock.

Courtesy Light

This output is used to power a courtesy light. The factory default for the courtesy light is on output 2. Output 2 is a voltage-free relay contact with common, normally open and normally closed contacts. Having it voltage-free allows you to connect either 12VDC/AC, 24VDC/AC or 240VAC supply to the common. The normally open contact drives the light.

Service Call Output

Either output 1 or output 2 can be changed to service call indicator. This will trigger the output when the software service counter is reached. Used to alert installers or owners when the gate is to be serviced. Use Elsema's GSM Receiver allows installers or owners to get a phone call and SMS message when the service is due.

Strobe (Warning) Light when Opening or Closing

The relay output is activated whenever the gates are operating. The factory default is Off. Either output 1 or output 2 can be changed to strobe (Warning) light. Both relay outputs are voltage-free contacts. Having it voltage-free allows you to connect either 12VDC/AC, 24VDC/AC or 240VAC supply to the common to power the strobe light. Then the normally open contact drives the light.

Locking Actuator

Locking actuator mode uses both relay output 1 and relay output 2. The 2 outputs are used to change the polarity of the locking actuator to lock and unlock during opening and closing cycle. During pre-open relay output 1 is "On" and during post-close relay output 2 is "On". Pre-open and post-close times are adjustable.

Gate Open

The relay output is activated whenever the gate is not fully closed. The factory default is Off. Either output 1 or output 2 can be changed to gate open.

Brake

This output is used to power a brake. Either output 1 or output 2 can be changed to brake. Both relay outputs are voltage-free contacts. Having it voltage-free allows you to connect either 12VDC/AC, 24VDC/AC or 240VAC to the common. The normally open contact drives the brake.

Menu 6 – Relay Output Modes

Menu 6.1 – Lock Output Modes

The relay output in the lock mode can be configured in different ways.

| Menu No. | Lock Modes | Factory Default | Adjustable |
|----------|---------------------------|-----------------|------------------------|
| 6.1.1 | Open Lock Activation | 2 seconds | 1 – 30 seconds or hold |
| 6.1.2 | Close Lock Activation | Off | 1 – 30 seconds or hold |
| 6.1.3 | Open Pre-Lock Activation | Off | 1 – 30 seconds |
| 6.1.4 | Close Pre-Lock Activation | Off | 1 – 30 seconds |
| 6.1.5 | Exit | | |

6.1.1 Open Lock Activation

This sets the time the output is activated. Factory default is 2 seconds. Setting it to Hold means the output is activated for the total travel time in the open direction.

6.1.2 Close Lock Activation

This sets the time the output is activated. Factory default is off. Setting it to Hold means the output is activated for the total travel time in the close direction.

6.1.3 Open Pre-Lock Activation

This sets the time the output is activated before the gate starts in the open direction. Factory default is Off.

6.1.4 Close Pre-Lock Activation

This sets the time the output is activated before the gate starts in the close direction. Factory default is Off.

Menu 6.2 – Courtesy Light Output Mode

The relay output in the courtesy mode can be adjusted from 30 seconds to 5 minutes. This sets the time the courtesy light is activated. Factory default is 1 minute.

| Menu No. | Courtesy Light Mode | Factory Default | Adjustable |
|----------|---------------------------|-----------------|-------------------------|
| 6.2.1 | Courtesy Light Activation | 1 minute | 30 seconds to 5 minutes |
| 6.2.2 | Exit | | |

Menu 6.3 – Strobe (Warning) Light Output Mode

The relay output in the strobe (Warning) light stays “On” while the gate is moving. This output can also be configured to come “On” before the gate starts to move.

| Menu No. | Strobe (Warning) Light Mode | Factory Default | Adjustable |
|----------|---|-----------------|----------------|
| 6.3.1 | Pre-Open Strobe (Warning) Light Activation | Off | 1 – 30 seconds |
| 6.3.2 | Pre-Close Strobe (Warning) Light Activation | Off | 1 – 30 seconds |
| 6.3.3 | Exit | | |

6.3.1 Pre-Open Strobe Light Activation

This sets the time the strobe light is activated before the gate operates in the open direction. Factory default is Off.

6.3.2 Pre-Close Strobe Light Activation

This sets the time the strobe light is activated before the gate operates in the close direction. Factory default is Off.

Menu 6.4 – Service Call Output Mode

This sets the number of complete cycles (Open and Close) required before the built-in buzzer is activated. Also the control card outputs can be configured to be activated if the number of cycles is completed. When “Service Call Due” message shows up on the LCD a service call is required. After service has been done, follow the messages on the LCD.

| Menu No. | Service Call Mode | Factory Default | Adjustable |
|----------|-------------------|-----------------|--------------------------|
| 6.4.1 | Service Counter | Off | Min: 2000 to Max: 50,000 |
| 6.4.2 | Exit | | |

Menu 6.5 – Locking Actuator Output Mode

The time for which relay output 1 turns “On” before the gate starts to open and the time for which relay 2 turns “On” after the gate is fully closed can be adjusted as below:

| Menu No. | Locking Actuator | Factory Default | Adjustable |
|----------|----------------------------|-----------------|----------------|
| 6.5.1 | Pre-Open Lock Activation | Off | 1 – 30 seconds |
| 6.5.2 | Post-Close Lock Activation | Off | 1 – 30 seconds |
| 6.5.3 | Exit | | |

6.5.1 Pre-Open Locking Actuator Activation

This sets the time relay 1 is activated before the gate operates in the open direction. Factory default is Off.

6.5.2 Post-Close Locking Actuator Activation

This sets the time relay 2 is activated after the gate is fully closed. Factory default is Off.

Menu 6.6 – Brake Output Mode

The relay output in the lock mode can be configured in different ways.

| Menu No. | Locking Actuator | Factory Default | Adjustable |
|----------|----------------------|-----------------|----------------|
| 6.6.1 | Pre Start Brake Time | 1 Second | 0 – 60 seconds |
| 6.6.2 | Post Stop Brake Time | 1 Second | 0 – 60 seconds |
| 6.6.3 | Exit | | |

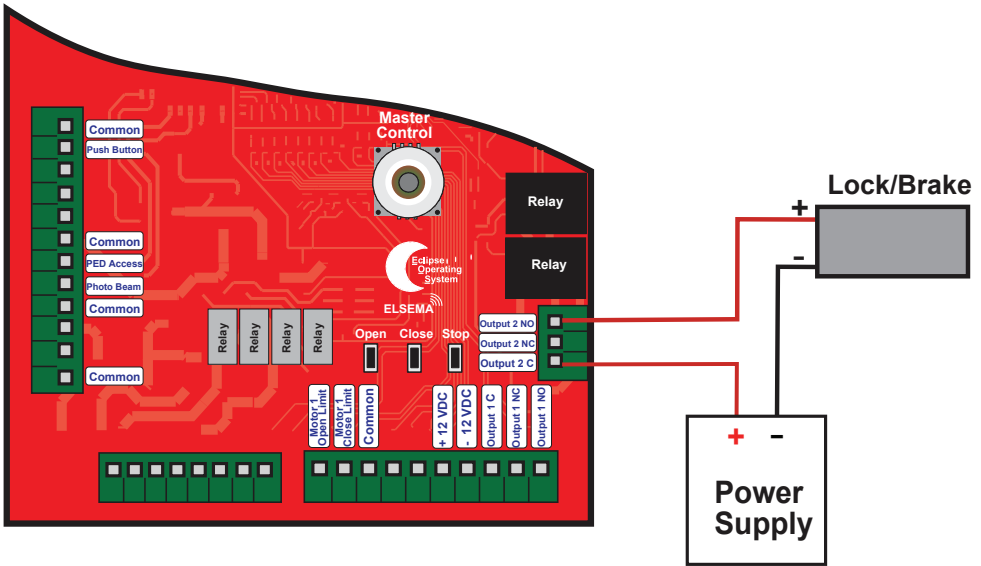
6.6.1 Pre-Start Brake Time

This sets the time relay is activated before the motor starts to run.

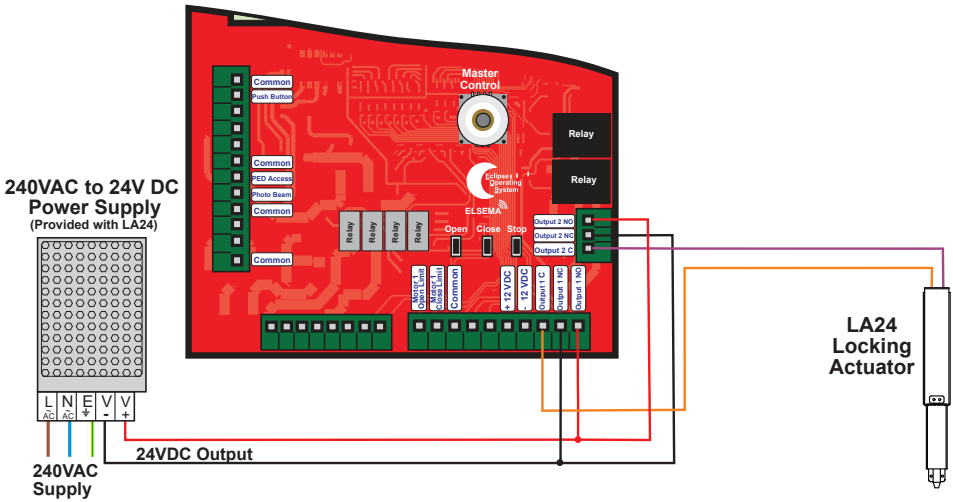
6.6.2 Post-Stop Brake Time

This sets the time relay is activated after the motor has stopped.

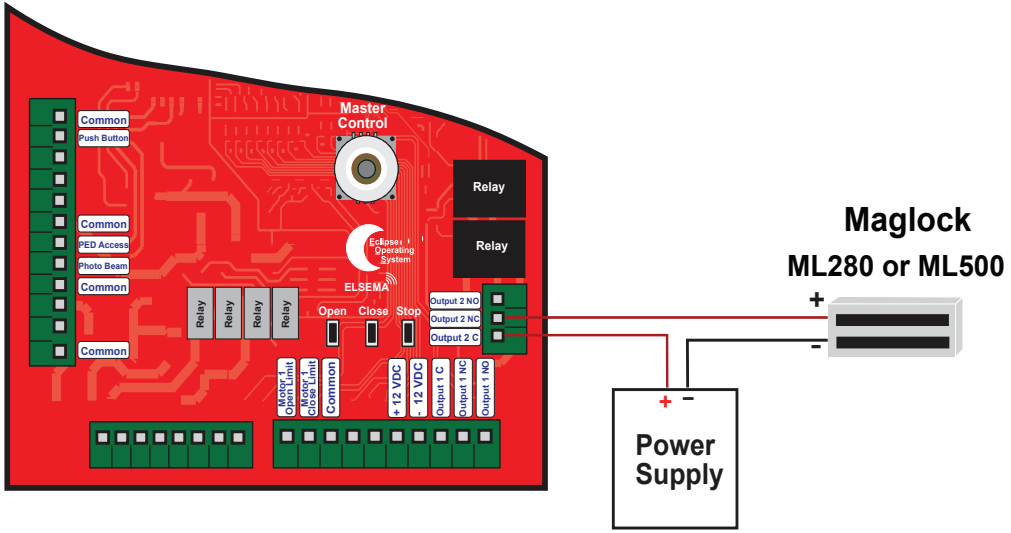
Lock/Brake Wiring Diagram



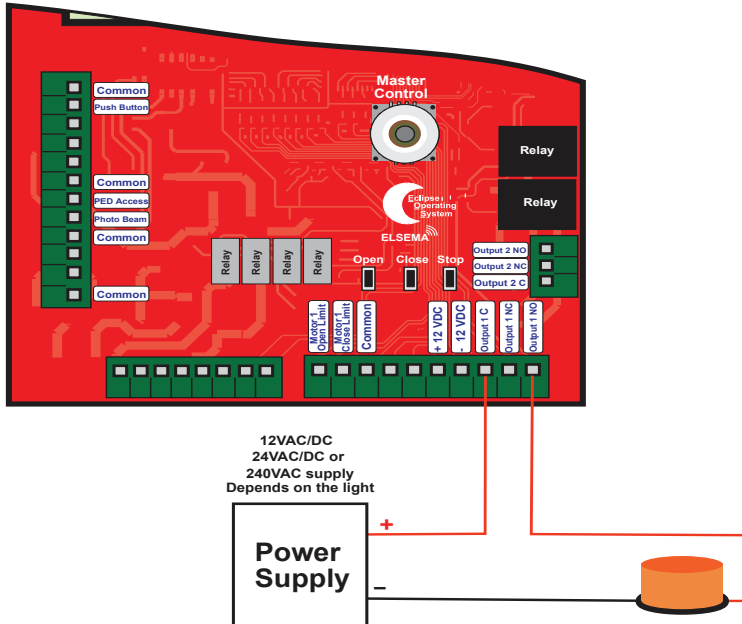
Locking Actuator Wiring Diagram



Magnetic Lock Wiring Diagram



Light Wiring Diagram



Menu 7 – Special Features

The control card has many special features that can all be customised to your specific application.

| Menu No. | Special Features | Factory Default | Adjustable |
|----------|---------------------------------------|-----------------|---|
| 7.1 | Remote Control Open Only | Off | Off/On |
| 7.2 | Holiday Mode | Off | Off/On |
| 7.3 | Energy Saving Mode | Off | Off/On |
| 7.4 | Automatic Stop/Open on Closing | On | Off/On |
| 7.5 | Receiver Channel 2 Options | Off | Off / Light / Pedestrian Access / Close |
| 7.6 | Press and Hold for Open Input | On | Off/On |
| 7.7 | Press and Hold for Close Input | On | Off/On |
| 7.8 | Press and Hold for Receiver Ch1 Input | Off | Off/On |
| 7.9 | Press and Hold for Receiver Ch2 Input | Off | Off/On |
| 7.10 | Push Button Open Only | Off | Off/On |
| 7.11 | Stop Input | Stop the Gate | Stop and reverse for 1sec |
| 7.12 | Exit | | |

7.1 Remote Control Open Only

By default the remote control allows the user to open and close the gates. This mode disables closing for the remote controls. Usually the Auto Close is used to close the gate.

7.2 Holiday Mode

This feature disables all the remote controls.

7.3 Energy Saving Mode

This puts the control card to very low standby current while still maintaining normal functions and operations.

7.4 Automatic Stop & Open on Closing

By default if the gate is closing and a Push Button or remote control is activated it will automatically stop and open the gate. When this feature is disabled then the gate will stop on an activation of the Push Button or remote control.

7.5 Receiver Channel 2 Options

The built-in receivers 2nd channel can be programmed to control a courtesy light, pedestrian access or close only function.

7.6 & 7.7 Press and Hold for Open and Close Inputs

This feature is ON by default. The user must continuously press the open or close input for the gate to open or close. The gate will stop as soon as the input is released.

7.8 & 7.9 Press and Hold for Remote Channel 1 (Open) and Channel 2 (Close)

The remote channel 1 & 2 buttons will need to be programmed to receiver channel 1 & 2. The user must continuously press the remote button for the gate to open or close. The gate will stop as soon as the button is released.

7.10 Push Button Open Only

If this feature is ON, Push Button input will only Open the gate. In public access areas user should only be able to open the gate and not worry about closing it. Usually the Auto Close is used to close the gate. This mode disables closing for the Push Button input.

7.11 Momentary Reverse on Stop Input

When this feature is ON and if stop input is activated, both gates will stop and reverse for 1 sec.

Menu 9 – Motor 1 Overrun Time

This sets the force and the overrun time for motor 1.

| Menu No. | Motor 1 Overrun Time | Factory Default | Adjustable |
|----------|----------------------|-----------------|------------------|
| 9.1 | Motor 1 Overrun Time | 20 seconds | Off - 30 seconds |
| 9.2 | Exit | | |

Menu 11 – Stop and Reverse Delay Time

| Menu No. | Stop and reverse Delay Time | Factory Default | Adjustable |
|----------|-----------------------------|-----------------|-------------------|
| 11.1 | Reverse Delay Time | 1 second | 0.5 - 2.5 seconds |
| 11.2 | Exit | | |

11.1 Stop and Reverse Delay Time

This sets the time after which the gate will reverse after it's interrupted during its opening or closing cycle.

Menu 12 – i-Learning

i-Learn is only required if the travel time is greater than 60 seconds. This feature allows you to do the intelligent travel learning of the gates. Follow the messages on the LCD to complete the learning.

Menu 13 – Password

This will allow the user to enter a password to prevent unauthorised users from entering the control card settings. User must remember the password. The only way to reset a lost password is to send the control card back to Elsema.

To delete a password select Menu 13.2 and press Master Control.

Menu 14 – Operational Records

This is for information only.

| Menu No. | Operational Records |
|----------|--|
| 14.1 | Event History, up to 100 events are recorded in the memory |
| 14.2 | Displays Gates Operations |
| 14.3 | Exit |

Menu 15 – Tools

| Menu No. | Tools |
|----------|---------------------------------------|
| 15.1 | Disabled |
| 15.2 | Resets Controller to Factory Settings |
| 15.3 | Test Inputs |
| 15.4 | Exit |

15.2 Resets Controller

Reset all settings to factory default. Also removes password.

15.3 Test Inputs

This allows you to test all the external devices connected to the controllers inputs. UPPERCASE means input is activated and lowercase means input is deactivated.

Keyring Remotes

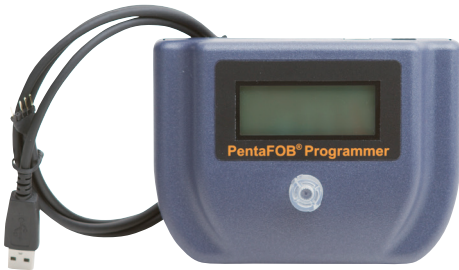
The latest PentaFOB® keyring remotes ensure your gates or doors are secure. Visit www.elsema.com for more details.

PentaFOB® Remotes



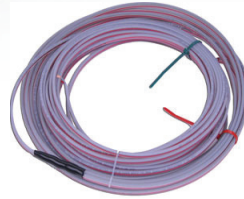
PentaFOB® Programmer

Add, edit and delete PentaFOB® remotes from the receiver's memory. The receiver can also be password protected from unauthorised access.



PentaFOB® Programmer

Pre-made Inductive Loops & Loop Detectors



Inductive Loop



Loop Detectors

Wireless Bump Strip



Safety Bump Strip

Booster for PentaFOB® remotes

Penta Repeater can increase the operating range of the keyring remotes to up to 500 metres.



Repeater/ booster for PentaFOB® remotes

Flashing Lights

Elsema has several flashing lights to act as a warning when the gate or doors is in operation.



Flashing Lights

PentaFOB® Programming Instructions

1. Press and hold the program button on the built-in receiver (Refer to the connection diagram)
2. Press the remote button for 2 seconds while holding the program button on the receiver
3. Receiver LED will flash and then turn Green
4. Release the button on the receiver
5. Press remote control button to test the receiver output

Deleting Receivers Memory

Short the Code Reset pins on the receiver for 10 seconds. **This will delete all the remotes from the receiver's memory.**

PentaFOB® Programmer

This programmer allows you to add and delete certain remotes from the receiver memory. This is used when a remote control is lost or a tenant moves from the premises and the owner wants to prevent un-authorised access.

PentaFOB® Backup Chips

This chip is used to backup or restore the contents of a receiver. When there are 100's of remotes programmed to a receiver the installer normally backups the receiver memory in case the receiver is damaged.

Keyring remote controls



Sliding gate motor kits

ELSEMA[®]
INTELLIGENT SLIDER[®]

Swinging gate motor kits

ELSEMA[®]
INTELLIGENT SWING[®]



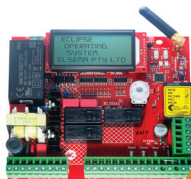
Sliding gate motor kits



Swinging gate motor kits



Motor control cards & Kits



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