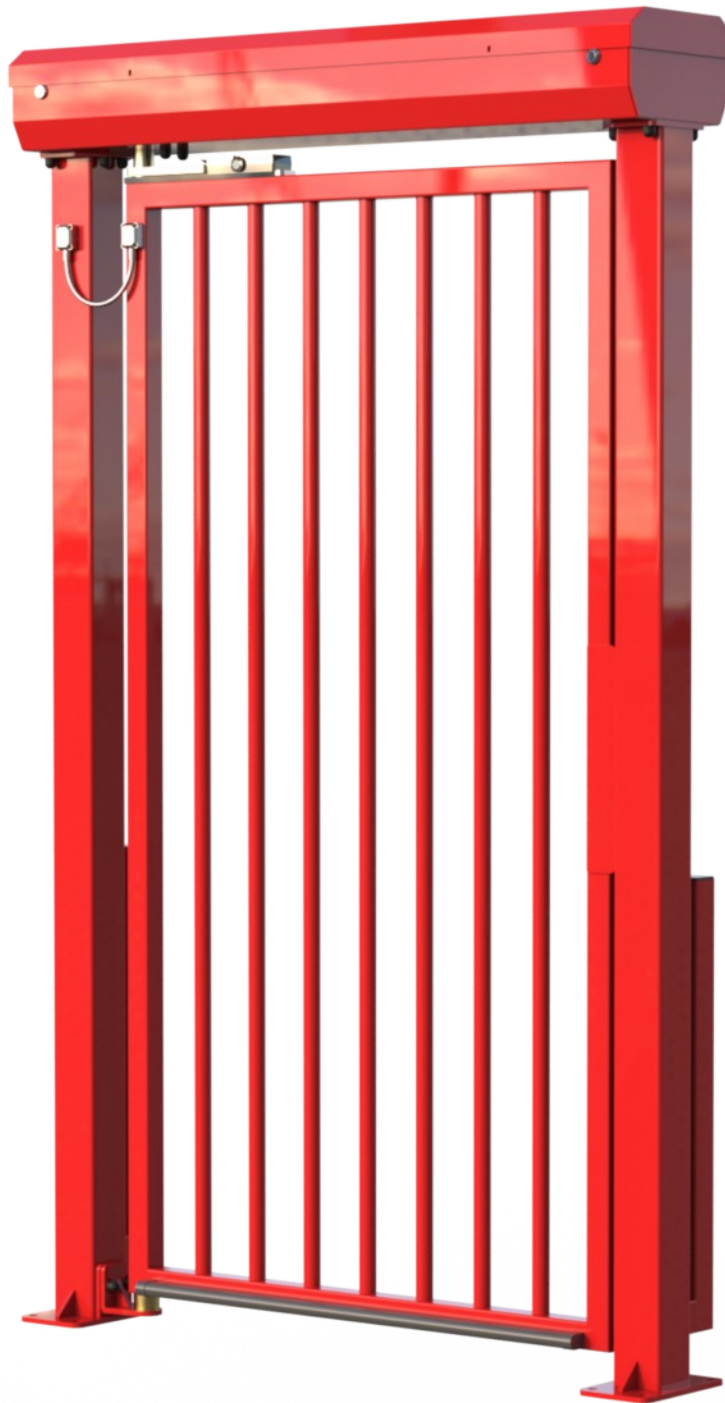


*O&M Manual  
Revision 3.0*



## D6150 Automatic Pedestrian Gate

Maximum span - 5.0m (Double leaf)  
100 % Duty cycle

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This equipment is part of a large range of traffic flow products. They are designed to be easy to install, as all settings and internal wiring have been completed in our factory. Any of the instructions in this manual should only be carried out by a qualified service engineer or a competent person.

The Gates are ready to bolt down, connect to a single phase power supply and have any pre-cut loops wired into them (Please note that loop detectors are sold separately). The steps must be completed before the power is turned on to prevent accidents.

The following information is a guide only, and whilst we have made every effort to be accurate and correct there may be printing errors which we cannot be held responsible for.

With a correct installation you can expect to enjoy many years of reliable service from this product, we do however recommend that the product has a bi-annual service carried out by a qualified engineer. Please contact our service department to obtain a quote. As we manufacture the products we are best suited to care for your equipment.

## Important Safety Notice



Automatic gates are designed to Control the flow of vehicular traffic only. It can be dangerous to allow the passage of pedestrians and any other self-powered animal or device to utilise this method of access without appropriate warnings and or signage.

It may be necessary for the end user of this product to provide an alternative, safe method of access to cater for the previously mentioned categories.

The end user should fit all necessary signage and warning notices to either side of the gate, which should be visible and clear from all directions of approach.

The product that was shipped to you was designed with a control program to protect all categories from harm or affect this however is only a safety precaution and should not be modified or tampered with by any unauthorised person not sanctioned by the manufacturer.

Please sign and date below to say that you have read and understood this notice before ANY installation work:

/     /20

The "Warnings" leaflet and "Instruction booklet" supplied with this product should be read carefully as they provide important information about safety, installation, use and maintenance.

Scrap packing materials (plastic, cardboard, polystyrene etc) according to the provisions set out by current standards. Keep nylon or polystyrene bags out of children's reach.

Keep the instructions together with the technical brochure for future reference.

This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.

The Company declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in the present documentation.

Do not install the product in explosive atmosphere.

The construction components of this product must comply with all applicable regulations and subsequent amendments. As for all non-EEC countries, the above mentioned standards as well as the current national standards should be respected in order to achieve a good safety level.

## Information on using this manual



- ✍ Read all information thoroughly
- ✍ Pay attention to all safety advice
- ✍ Be aware of the symbols (shown above right and above left) as they have different meanings. One is an information symbol, the other a warning.
- ✍ There are many artists impressions of the product in this manual you should refer to the images as a guide only. **Professional CAD** drawings should be used as a reference drawing and nothing else. As before every effort has been made to be 100% accurate in this manual but we cannot make any guarantees.
- ✍ As we constantly innovate our products we may change the quoted spec and any other details that have been documented in this manual so you should always refer to the supplier to see if the manual that was shipped with your product is the latest edition.
- ✍ As with all electrical installations you should use a qualified electrician and obey all of the latest laws and regulations.
- ✍ Be sure to fill out and complete **ALL** paperwork where instructed as this manual is the equipments log book and maintenance manual.

The Company declines all responsibility for any consequences resulting from failure to observe Good Technical Practice when constructing closing structures (door, gates etc.), as well as from any deformation which might occur during use.

The installation must comply with the provisions set out by all applicable regulations and subsequent amendments.

Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any buffer batteries, if fitted.

Fit an omnipolar or magnetothermal switch on the mains power supply, having a contact opening distance equal to or greater than 3mm.

Check that a differential switch with a 0.03A threshold is fitted just before the power supply mains.

Check that earthing is carried out correctly: connect all metal parts for closure (doors, gates etc.) and all system components provided with an earth terminal.

Fit all the safety devices (photocells, electric edges etc.) which are needed to protect the area from any danger caused by squashing, conveying and shearing, according to and in compliance with the applicable directives and technical standards.

This article describes how your equipment will be delivered to you, specifications on the transportation used and advice including health & safety on movement of the equipment.



The manufacturer will use a qualified transport company to deliver the product conforming to the necessary regulations as detailed below:

- ✘ All drivers are qualified
- ✘ All drivers are tested once yearly ( If applicable )
- ✘ All drivers carry risk assessments and method statements (available on request)
- ✘ They are controlled under law to conform as there are no trade regulation standards to comply with

Health and safety Considerations:

Moving Goods Safely (MGS) is a national project involving both the Health and Safety Executive (HSE) and Local Authorities (LA) working in partnership. The project aims to reduce injuries and ill-health arising from the movement of goods from supplier through haulier to the recipient and end user including any home deliveries. The project will focus upon the delivery and collection of goods and the hazards this generates. It covers the main areas that cause the majority of injuries and ill-health to workers, including:

- ✘ Workplace transport;
- ✘ Slips & trips, and;
- ✘ Musculoskeletal disorders (MSD).

The movement of goods presents us, as health and safety regulators, with the challenge of dealing with a huge variety of issues. The commercial organisations involved within the movement of goods are diverse including haulier, third party logistics providers, pallet networks, retailers etc, with some very large companies, thousands of small businesses and the self-employed. The movement of goods is more than just trucks on the road with a large proportion of accidents happening at the delivery/collection sites that are often not directly under the control of the company making the delivery or collection. Communication and cooperation problems can arise due to the many organizations involved in the movement of the goods, and this can also lead to difficulties in effectively managing health and safety.

(Source H&S Executive UK 2008)

The gates should ALWAYS! be moved with care and attention. The products are very heavy individually as well as a whole. You should not attempt to move this or any other products by unapproved handling methods.

**WARNING**

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Always take safety precautions when lifting and handling heavy objects, in accordance with Manual Handling Operation Regulations 2022.

Always wear correct safety equipment in the vicinity of equipment being off loaded. The gate is to be steadied by means of ropes attached to each end of the gate; preventing it from swinging whilst being manoeuvred. It is important to use the correct nylon slings with a SWL of 1 tonne for each sling.

---

**HANDLING**

Due to the size and weight of our D6150 pedestrian gates, the services of a mobile crane/ hiab are essential for safe off-loading and positioning. Due to the design and build of our pedestrian gates the unit will arrive completely built for your convenience. The strapping points we would recommend would be around the trough at either end to allow a steady lift and ease of alignment onto ducting and foundations. The correct install procedure can be found in the following pages.



Shown below is a general layout of a typical D6150 gate



**General Description,**

The D6150 Pedestrian gates are designed to provide the perfect solution for security in Industrial locations where Reliability and Security is paramount. Commonly chosen for applications such as multi-storey car parks, prison entrances and corporate access paths, they provide an aesthetically pleasing, high security entrance control solution. They are fitted with our reliable heavy duty drive systems which are almost silent in operation and are fitted within the gate trough. They have an Impeccable service record with maximum longevity in the most demanding Environments. Gates are engineered to allow bolt down fixing to suitable concrete pads, and are compatible with all current access controls.





## Foundations

All foundations should be installed as per drawing supplied as base size's will vary depending on the size of the gates. (Contact your supplier if you have not been issued one.) All foundations should be installed 10 x days prior to the gates being installed.

If details of the base have not been specified, we recommend a concrete mix to BS EN 206:2013+A2:2021 "Concrete specification, Performance, Production and Conformity" to type C35, which is equally suitable for external and internal environments.

The foundation must be positioned accurately and installed to the correct levels to ensure successful installation.



Careful consideration should be made when deciding the location of the gate to avoid overhead obstructions such as power cables, telephone wires building canopies, trees and other types of likely obstructions and hazards, which will not

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## Ducting

Ducting carrying cables for power and control should enter the gate support frame from underground. Two ducts are normally required, one for the power supply, the other for the control. Where the power supply and control cables are to come from a common place; a single duct can be used.

These ducts must be sited accurately in the base as shown on the contract drawing. The use of cable access pits is recommended where there may be a number of ducts used entering the gate or long cable runs are necessary. We also recommend the ducts used be of 50mm diameter PVC. Alternative types and sizes may be acceptable, subject to discussions with your equipment supplier.

Slow bends should always be used wherever possible, and the inclusion of draw ropes throughout the ducting system, will ensure that the cables are easily installed.

**Single Leaf Bits Box;**

1. Manual Operation Handle
2. 8 x m16 x 180mm Through Bolts
3. 8 x m16 Caps
4. Keys
5. O & M Manual



**Double Leaf Bits Box;**

1. 8 x m16 x 180mm Through Bolts
2. 8 x m16 Caps
3. 2 x Keys
4. 2 x Manual Operation Handles
5. O & M Manual



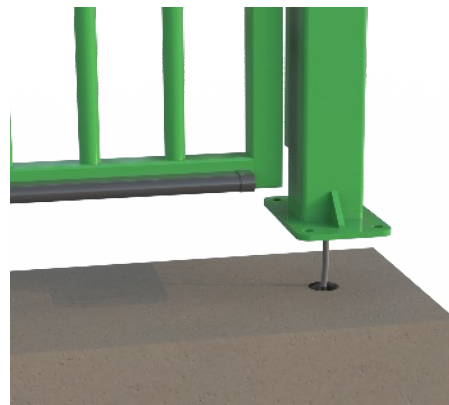
**Step 1, Lifting the pedestrian gate**

The pedestrian gate can be lifted into place with the use of the hiab vehicle for convenience these gates are supplied fully built. Please use caution when lowering the gate.



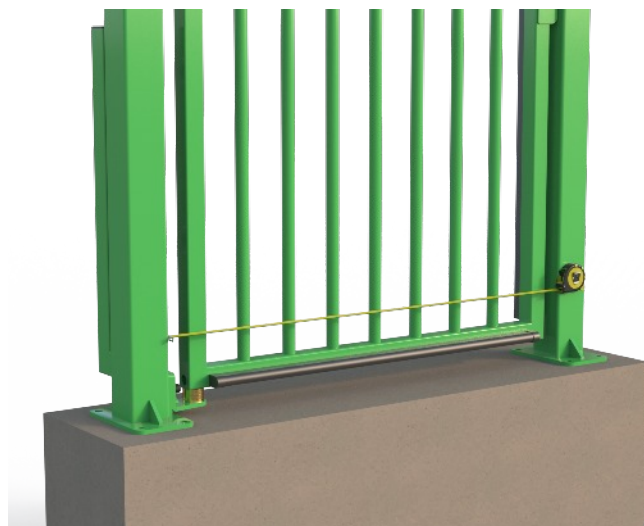
**Step 2, Aligning the gate and setting distance**

Now you have lifted your gate and are ready to align the gate with your pads and ducting, The gate comes with access holes for ducting in the centre of each foot, Therefore aligning the ducts should be easy as you lower the gate to the foundations.



**Step 3, Correct distancing**

Now the posts are located over the ducting, Please ensure the distance between posts is correct to the drawing before you begin to bolt down.



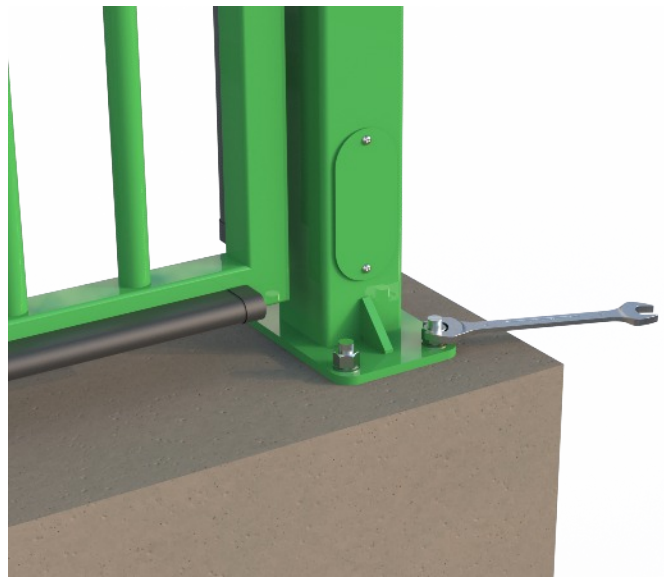
### Step 4, Bolting Down

Now you have the gate frame square and located onto the ducting you can install the gate to the foundations using the supplied m16 anchor fixings, Please drill the holes into the concrete using a suitable sds with 16mm drill bit (fig 1). Once the gate has been drilled and the bolts are in place the product can be leveled using metal packers to level the legs prior to tightening the bolts, Once happy with the levels the bolts can now be tightened using a suitable spanner or impact wrench to tighten the through bolts to the desired torque (fig 2)

Figure 1

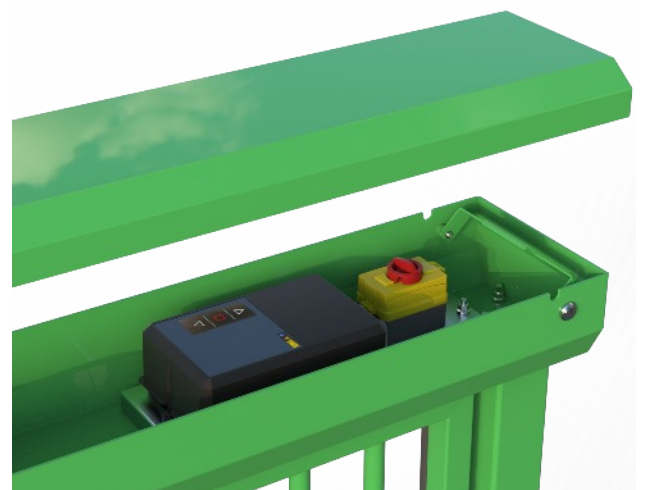
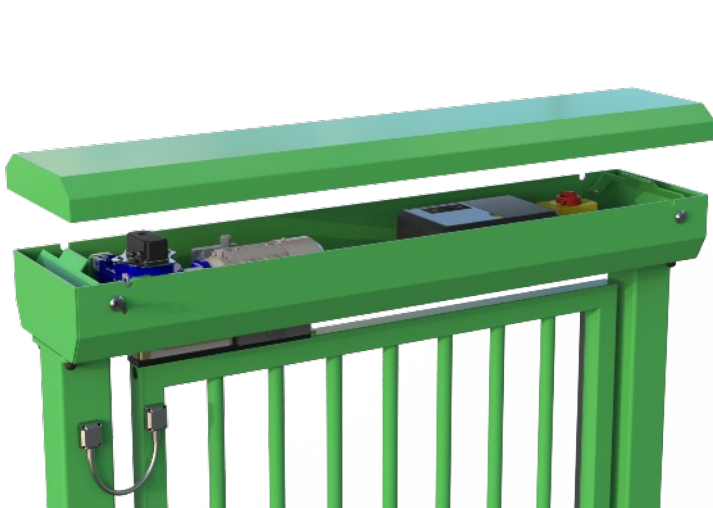


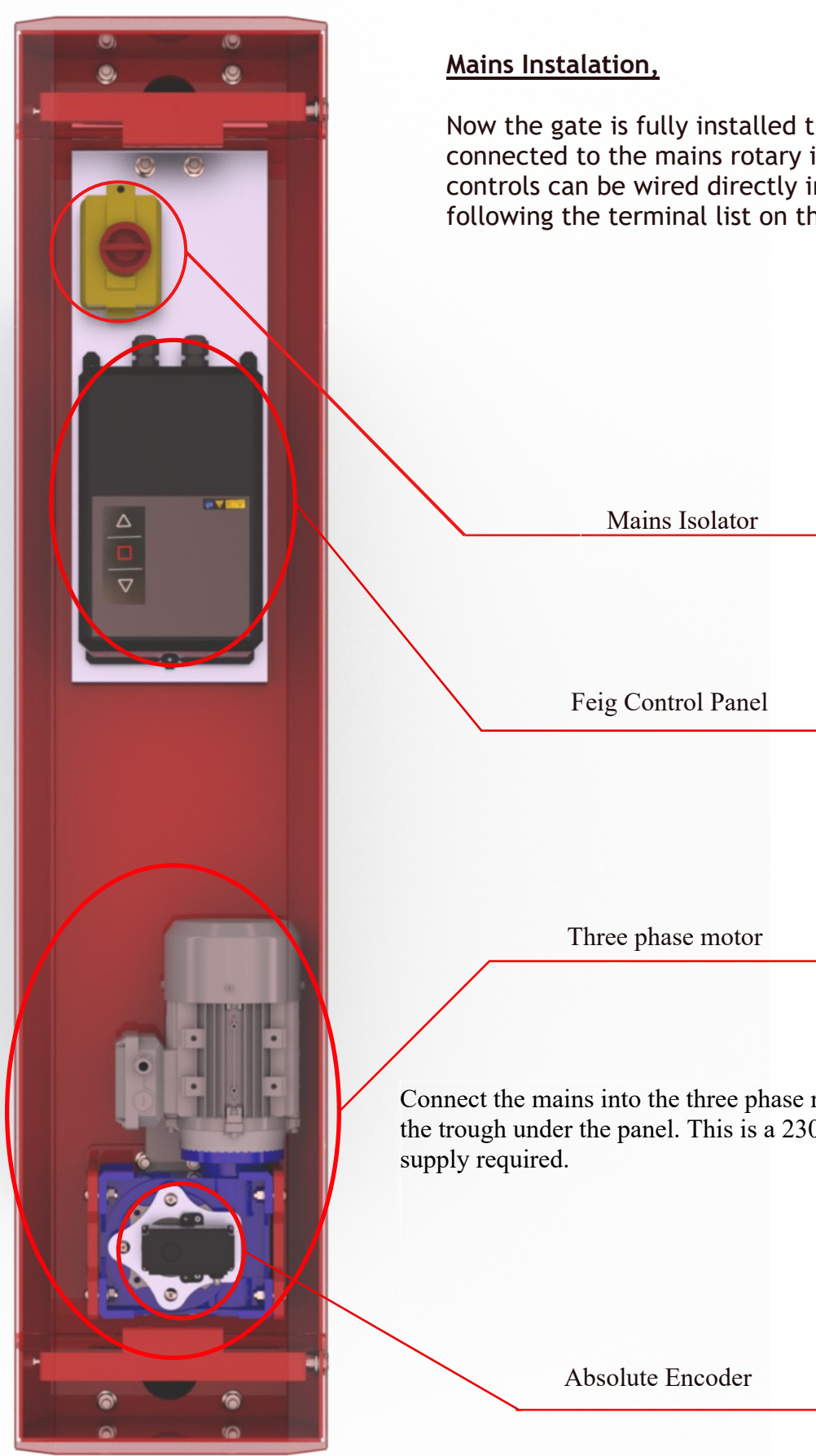
Figure 2



### Step 5. Connecting the supplies

Now the gate is fully installed and level the installer can now connect the mains and access control cabling into the provided mains isolator for the mains and the open and close connections inside the feig control panel. Details of terminals connections and adjustment procedures can be found in the following few pages.





**Mains Instalation,**

Now the gate is fully installed the mains can be connected to the mains rotary isolator. The access controls can be wired directly into the feig board following the terminal list on the next page.

Mains Isolator

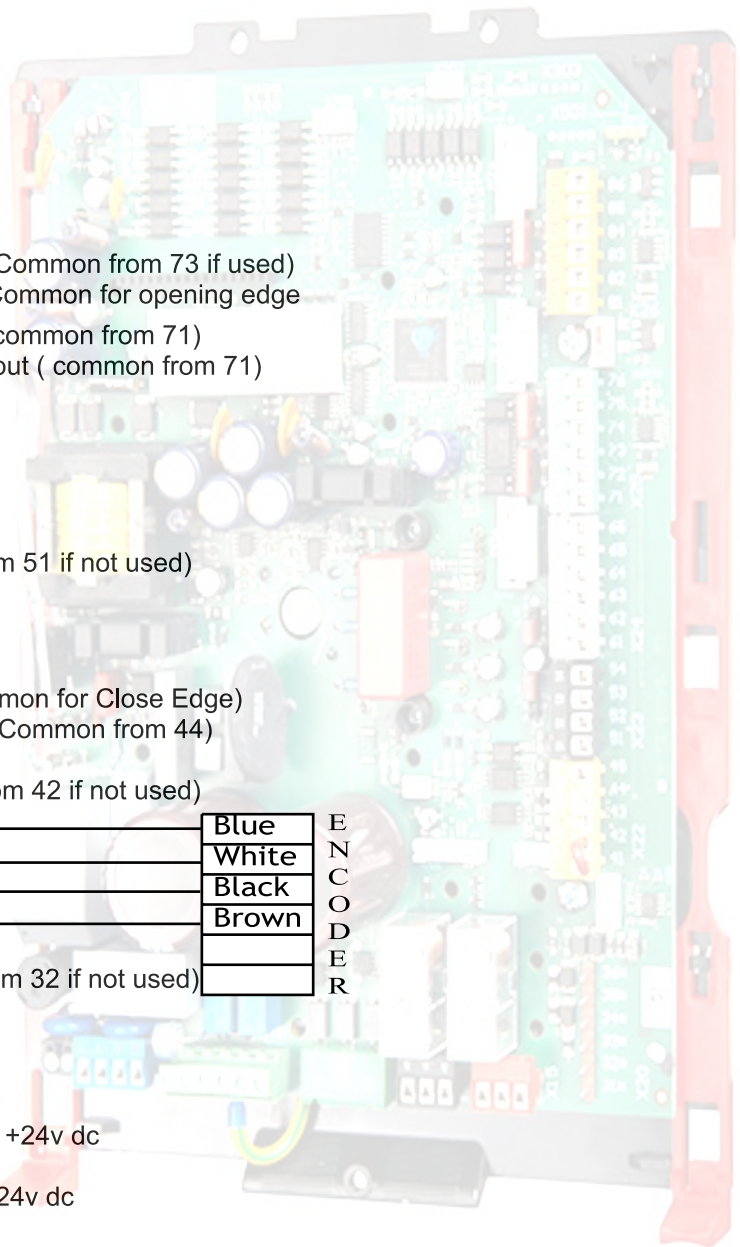
Feig Control Panel

Three phase motor

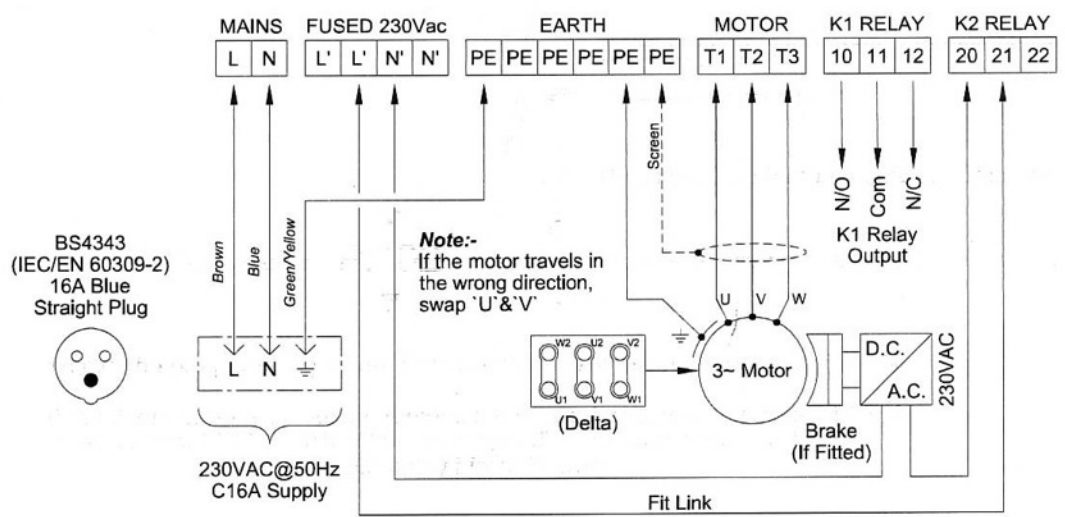
Connect the mains into the three phase rotary isolator found in the trough under the panel. This is a 230v single phase 16amp supply required.

Absolute Encoder

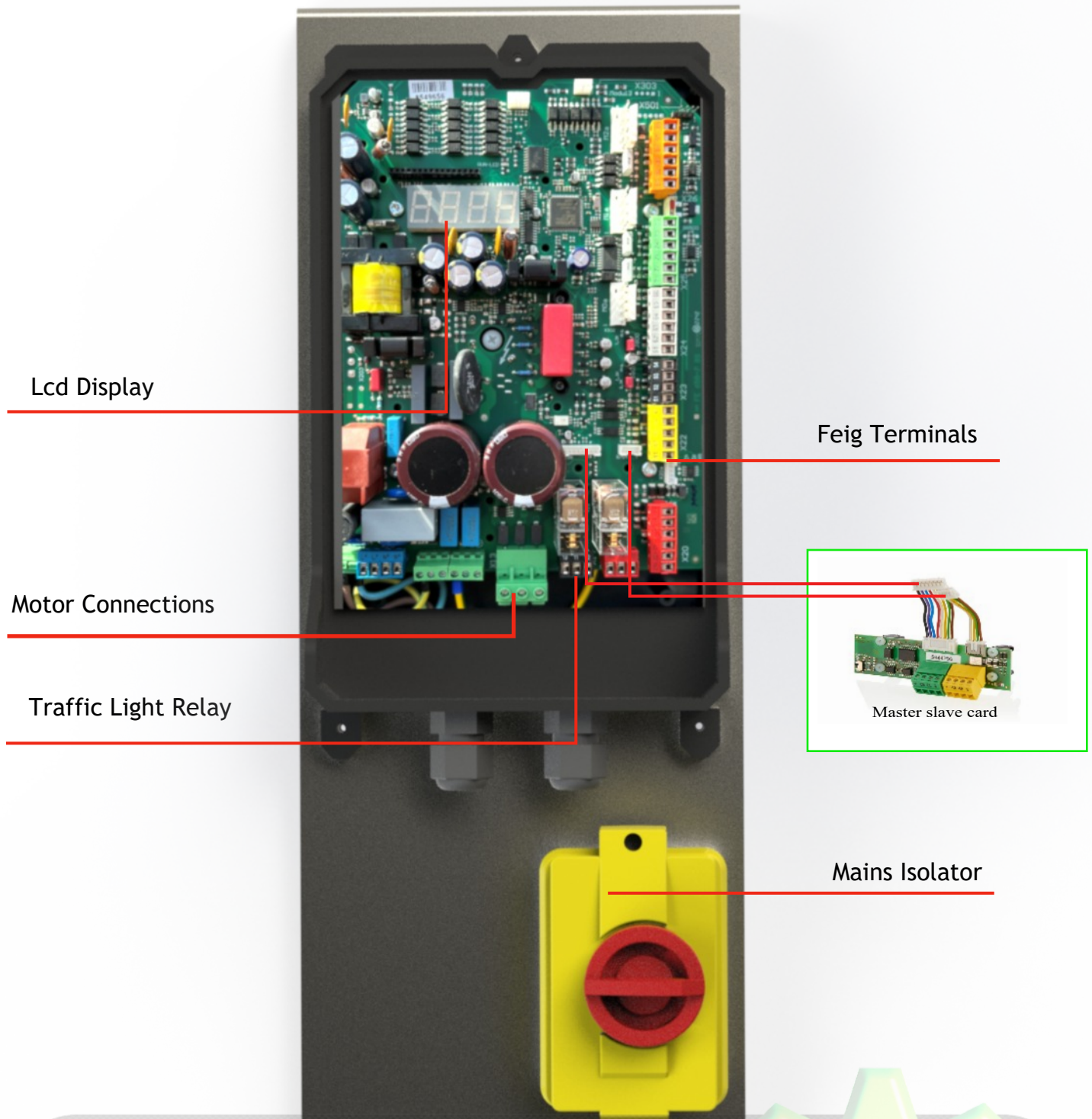
- 86 Common +24v dc
- 85 Open Dead Man
- 84
- 83 Common +24v dc
- 82 Close Dead Man
- 81
  
- 76 Common
- 75 Photocell
- 74 Ground -24v dc
- 73 Common +24v dc
- 72 Pedestrian Open (Common from 73 if used)
- 71 Ground -24v dc (Common for opening edge)
  
- 66 Beacon Sounder (common from 71)
- 65 Open Edge 8k2 Input ( common from 71)
- 64
- 63 Ground -24v dc
- 62 Common +24v dc
- 61
  
- 54 Close Input
- 53 Stop Input (link from 51 if not used)
- 52 Open input
- 51 Common +24v
  
- 45
- 44 Ground -24v (Common for Close Edge)
- 43 Close Edge Input (Common from 44)
- 42 Common +24v dc
- 41 Stop Input (Link from 42 if not used)
  
- 36 Ground
- 35 Channel B
- 34 Channel A
- 33 +12v
- 32 Common +24v dc
- 31 Stop input (Link from 32 if not used)
  
- 22
- 21
- 20
  
- 12 Green Traffic Light +24v dc
- 11 +24v dc Link
- 10 Red Traffic Light +24v dc



36	Ground	Blue	E
35	Channel B	White	N
34	Channel A	Black	C
33	+12v	Brown	O
32	Common +24v dc		D
31	Stop input (Link from 32 if not used)		E
			R



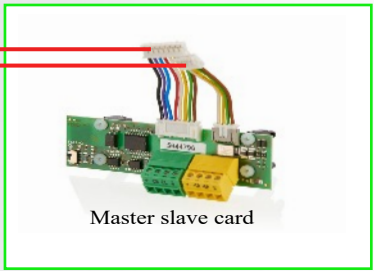
Control Panel



Lcd Display

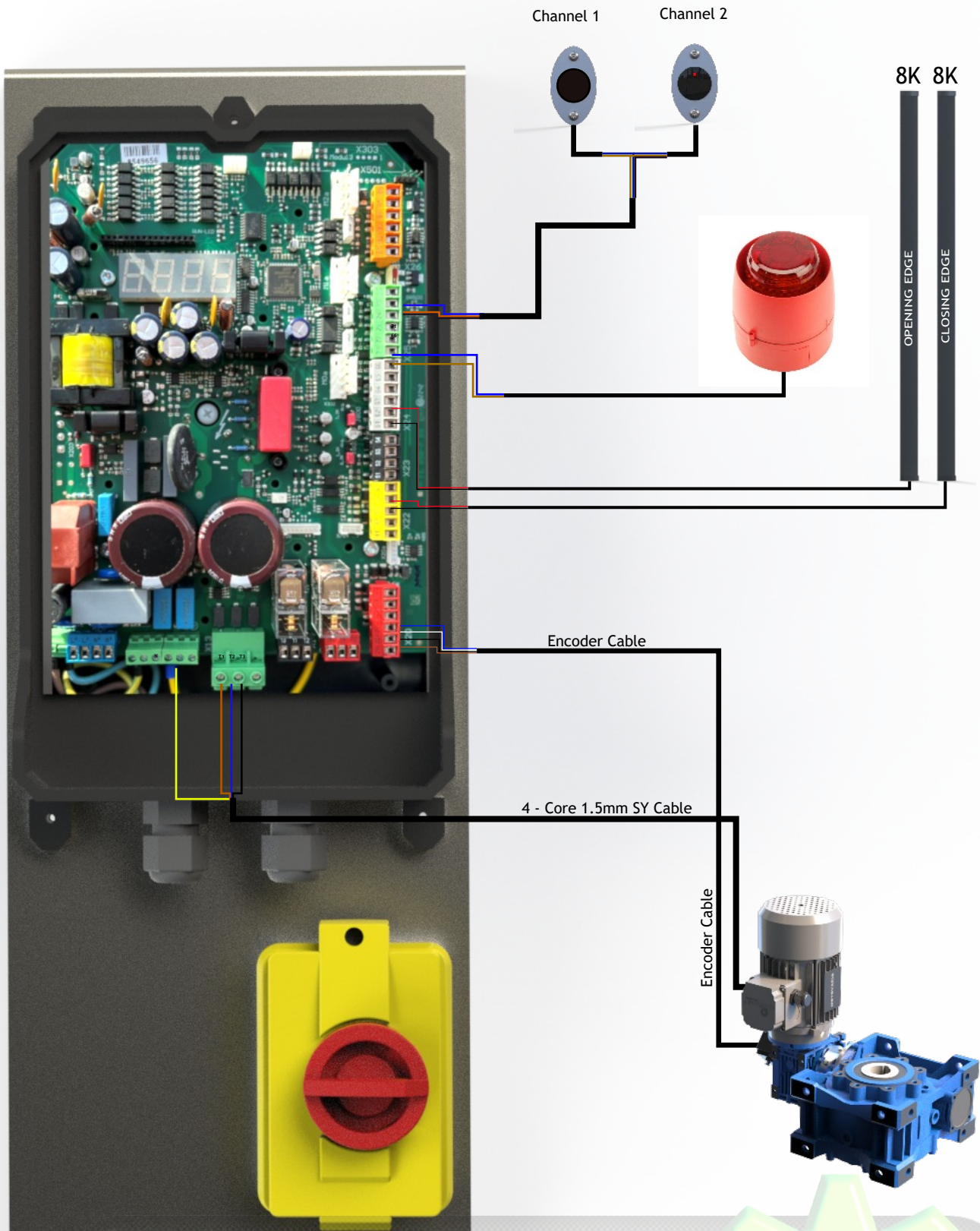
Feig Terminals

Motor Connections



Traffic Light Relay

Mains Isolator



When you have the gate powered and ready to run please follow the next few steps to initially set up your encoder run positions. This will only need setting once.

---

Figure 1

**Step 1;**

Once powered up provided there are no faults the board will display the message Cali, this is asking you to calibrate the encoder. Figure 1

**Step 2;**

When ready press the stop button briefly. The board will now display The EI-EC asking you to sync to close position. Note the dots between the letters will be flashing.

---

Figure 3

**Step 3;**

Simply hold the down arrow to close the gate to its desired position, don't worry if you let go early simply press the down to jog the gate to position. Once at your desired close position press and hold the stop until the dots stop flashing this will record the close position and then revert to the open sync, Figure 4

**Step 4;**

Please now using the up arrow move the gate to its desired open position. Again once happy press and hold the stop button until the dots stop flashing to store the open position.

**Step 5;**

The gate is now set and ready to operate, before testing safeties I would advise at this point to give the gate an open and close operation to ensure the positions are correct and you can see the slow downs and ramps operating correctly.



## Step 6,

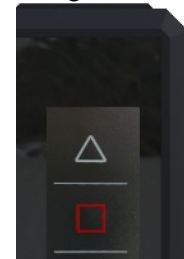
If you are now happy with the gates positions please test all safeties as normal, i. e all edges and photocells. The gate also now incorporates a force detection this will require a firm push to the leaf to enable its operation whilst the leaf is travelling. The leaf once force detected will move to its opposite position and stop. If The gate positions need resetting please follow the following few steps to re calibrate the encoders.

## Step 7,

Should we need to reset the positions on the gate please follow these steps.

You will need to access the parameters menu. This can be done by pressing and holding the stop and up arrows together. See figure 6

Figure 6



## Step 8,

Navigate through the menu to parameter 999 (figure 7) using the up arrows. (Note holding the down arrow and pressing the up will move through parameters in blocks of ten for ease)

Figure 7



## Step 9,

Once at P999 press and the stop button this will enter the parameter allowing you to change the value. Please set this to number 3 using the up arrows and confirm by holding the stop again for 2 seconds. Figures 8 and 9) to exit the parameter just press the stop key.

Figure 8



## Step 10,

Now navigate through the menu to parameter 210 and set this to 5, this will reset the encoder allowing you to re calibrate the gate. Please follow previous steps until you are happy with the positions and safeties.

**Note This setup is the same for single leaf and master and slave. The buttons will only work the leaf to which they are installed. To test both leaves on a bi parting gate, (double leaf) please use the open and close inputs on the board.**

Guide to inputs Commonly Used,

P.100	50HZ	Motor Frequency
P.101	1.7A	Motor Current
P.102	74%	Motor Cos
P.103	230V	Motor Voltage
P.205	0800	Encoder Setting
P.202	10	Resolution/ Increments of Travel Allowed
P.216	1	Slow positions Pre-set
P.222	300	Close Slow Position
P.223	300	Open Slow Position
P.310	30HZ	Open Speed
P.312	100	Acceleration Open HZ per second
P.320	10HZ	Open Slow Speed
P.322	15	Open Ramp
P.332	500	Deceleration After Opening Edge Activation
P.350	30HZ	Close Speed
P.352	100	Acceleration Close HZ per second
P.360	10HZ	Close Slow Speed
P.362	15	Close Ramp
P.372	500	Deceleration After Close Edge Activation
P.420	3	Pause Time on Safe Edge Reversal M/S
P.70F	0801	Output 15 Set to Beacon Sounder

Closing Edge,

P.460	1	8K2 Edge
P.467	16	Reverse Increments During Closing according to P.4xB
P.4DB	400	Reversal Increments

Opening Edge,

P.5A0	14	Input 10 Safety A
P.5A1	10	Reverse Increments During Opening according to P.4xB
P.5A2	2	Input 10 8K2
P.4AB	400	Reversal Increments



ULTIMation Direct

The Ultimate In Automation

## Basic Parameters

**D6150**

Code	Description	Cause/ Rectification
Stop	Stop Movement	Membrane pressed/ awaiting command
_EC_	Close Position	Product in close position
_EO_	Open Position	Product in open position
Cali	Calibration	Awaiting calibration of positions
EIEC	Calibrating close	Close position calibration
EIEO	Calibrating Open	Open position calibration
'HD'	Deadman Operation	Safety fault or Deadman setting
Parameter	Description	Option
P010	No Pass Timer	0=off any other value=time to close
P020	Open Delay	Open delay set in milliseconds
P025	Close Delay	Close delay set in seconds
P100	Motor Frequency	Set in Hz
P101	Motor Current	Ampeage for motor
P102	Motor Power Factor	Set as a %, Motor cos
P103	Motor Voltage	Nominal Voltage
P140	Open motor boost	Percentage Boost during slow open 0-30%
P145	Close motor boost	Percentage Boost during slow close 0-30%
P202	Encoder resolution	Increasing halves increments
P210	Calibration Modes	Set to 5 to re-calibrate
P221	Fine adjustment close	Encoder only
P231	Fine adjustment open	Encoder Only
P310	Open speed	Set in Hz
P350	Close speed	Set in Hz
P920	Fault Log	Last recorded Faults

## Output Configuration,

The 2 x relays on the feig controller can be adjusted to control a number of options. These can be found in the list below.

For ease Relay 1 = P701. Relay 2 = P702

The function of the output relay can be specified using this profile. All parameters needed for the function of the output are changed in one step.

- 0000: Output deactivated
- 0001: Continuously turned on
- 0101: Door is Open

*The message depends on the logical status of the door*

- 0103: Door is Open

*The message depends on the position of the door*

- 0201: Door is Closed

*The message depends on the logical status of the door*

- 0203: Door is Closed

*The message depends on the position of the door*

- 0401: There is no error
- 0501: Courtyard light function, switched ON during opening and closing with 10 s switch off delay after closing.

- 0601: Passing on detector channel 1
- 0602: Passing on detector channel 2
- 0605: Synchronous control OPEN, signal duration 0.5 seconds.  
The output is active during opening, in End position OPEN and during locking in end open position.

- 0606: Synchronous control CLOSE, signal duration 0.5 seconds.  
The output is active during Closing, in End position Close and during locking in end position close.

- 0607: Synchronous control STOP, signal duration 0.5 seconds.  
The output is active when the door is not moving, no end position is approached and no locking in any end position is active.

- 0612: Passing on leaving detector 1
- 0613: Passing on leaving detector 2
- 0630: Forwarding Brake
- 0634: Forwarding, of an low Battery from the WiCab mobile Unit
- 0659: F.363: forwarding disturbance of the internal safety edge.
- 0660: Forwarding: maximum number of trips of the safety edges has been exceeded.

- 0665: Forwarding detector channel 3
- 0666: Forwarding detector channel 4
- 0701: Flashing during opening and closing
- 0703: Switched on during Opening and Closing
- 0801: Active during opening and closing and during active pre-warning / clearance time.

- 1001: Locking second door
- 1002: Locking second door, 1 s switch off delay

- 1101: Magnet voltage in end position CLOSE



**The N.C. contact of the relay has to be used**

- 1102: Magnet voltage during Closing and in end position CLOSE

- 1201: Green traffic light on inside of door
- 1210: Green traffic light on outside of door
- 1220: Red traffic light on inside of door 1
- 1221: Flashing red traffic light on inside of door 1
- 1222: Red traffic light on inside of door 2
- 1223: Flashing red traffic light on inside of door 2
- 1224: Red traffic light on inside of door
- 1232: Red traffic light on inside
- 1233: Red traffic light on inside, inverted
- 1250: Red traffic light on outside of door 1, flashing during clearance time
- 1251: Flashing red traffic light on outside of door 1
- 1252: Red traffic light on outside of door 2
- 1253: Flashing red traffic light on outside of door 2
- 1255: Red traffic light on outside of door
- 1263: Red traffic light on outside
- 1264: Red traffic light on outside, inverted
- 1295: Green traffic light, flashing during pre-warning / clearance time, ON in end position OPEN
- 1298: Direction dependent red traffic light. On for opening and closing movement. Off when CLOSED and when OPEN. Flashes during evacuation time
- 1601: Airlock OPEN
- 1701: Testing in end position close
- 1801: Counting +



*The function is only possible with detectors 1 and 2. At first you have to activate the + loop and then the - loop.*

- 1901: Counting -



*The function is only possible with detectors 1 and 2. At first you have to activate the - loop and then the + loop.*

- 2001: Warning light 1, always ON if door is not closed.
- 2101: Warning light 2, switched ON during closing
- 2201: Active green traffic light, ON in endposition OPEN until a close command is given or detector 2 gets active.
- 2301: Active green traffic light, ON in endposition OPEN until a close command is given or detector 1 gets active.
- 2501: Testing in endposition OPEN
- 2601: Emergency opening test
- 3201: Output function brake
- 3202: Output function brake (N.C., output turned)

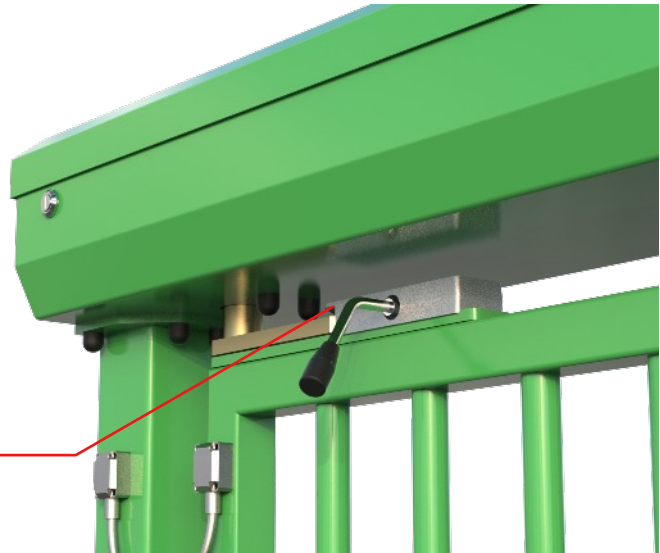


*The exact settings which this profile involves can be found in Appendix Output Profile.*

In the event of a power failure or fault on the gate you can manually release the gates as described below.

Please use the following instructions to operate the gates manually, the following is assuming you have powered down the control panel.

The manual release is located atop of the gate leaf frame. Please locate your manual release key and insert as shown. To release simply turn the key to disconnect the leaf from the drive arm.



Now that the gate leaf is released please be careful of any trapping areas. You can now open and close the leaf as desired.



When in manual mode be sure to operate the gate carefully as damage can be caused if gates are slammed open and closed. You must make sure the gates are tied back if left in manual mode to prevent the gates moving on there own.

### **Warning**

Make sure the power is disconnected to prevent any sudden movement on the motors that may cause injury.

Also take great care when operating manually in windy conditions.



As stated at the beginning of this manual we recommend a bi-annual service, but at a bare minimum, it is imperative that you get a service done once every 12 months. This is not a sales tactic in disguise, there is a very serious health and safety issue/risk associated with not complying to this. Also in order for your gate to keep complying with the appropriate legislation.

Before carrying out any maintenance to the installation, disconnect the mains power supply.

Make sure you have disconnected/isolated the power before attempting any work.

A Maintenance Contract should be sought from a specialist company after a maximum of 5000 manoeuvres or 1 year from the install date.

Occasionally clean the photocell optical components and make sure they are free from dirt, water, rain, soil etc.. ? Batteries in photo cells may need to be changed every 6 months or sooner dependant on use. The gate will not work properly without photo cell function.

Have a qualified technician (installer) check the correct setting of the electric clutch.

If the power supply cable is damaged, it must be replaced by the manufacturer or its technical assistance service, or else by a suitably qualified person, in order to prevent any risk.

When any operational malfunction is found, and not resolved, disconnect the mains power supply and request the assistance of a qualified technician (installer). When automation is out of order, activate the manual release to allow the opening and closing operations to be carried out manually.

Gearbox drive unit is "sealed" for life and requires no further lubrication.

Parts that require lubrication -

The double leaves have 4 x Bearing hinges on them that require lubrication, Single leaves are just 2, they have a grease nipples located at the side. The Bearings can be found Under the gearbox and on top of the main post.

The gates also have 4 x M 20 rod eye bearings on double leaf and 2 on single leaf on the end of the tie bars that need lubrication.

On a annual service these items mentioned above should be lubricated as well as all other checks listed below.

- Checks on a service -
- All safety edges are operational
  - All photocells are operational
  - Limit switched are set correct
  - Gates are structurally ok e.g no damage
  - All connections/wiring are ok
  - All push buttons and stop circuits operate correctly

Code	Description	Reason
E000	Open pressed Membrane	
E050	Stop pressed Membrane	
E090	Close pressed Membrane	
E101	Open input	Open activated
E102	Stop input	Stop activated
E103	Close input	Close activated
E104	Ped open Input	Ped activated
E105	Photocell input	Photocell activated
E106	Dead open input	Deadman open activated
E107	Dead close input	Deadman close activated
E108	Open limit input	Open limit activated
E109	Close limit input	Close limit activated
E110	Input 10	Open safety input loss of 8k
E201	Membrane stop pressed	
E211	E-stop	Terminals 41/42 open
E212	E-stop	Terminals 31/32 open
E360	Close edge input	Terminals 43/44 open
E363	Close edge resistance	Terminals 43/44 no 8k
E380	Open edge input	Terminals 63/65 open
E383	Open edge resistance	Terminals 63/65 no 8k
E501	Loop detector channel 1	Channel 1 active
E502	Loop detector channel 2	Channel 2 active

Code	Description	Fault / Rectification
F000	Traveled Past calibrated open	Check Speeds/ Encoder Slip / Re-calibrate
F005	Traveled Past Calibrated open	Check Speeds/ Encoder slip / Re-calibrate
F020	Run Time exceeded	Check P410/P415/P419
F030	Lag Error	Check Boost settings P.140 / P.145
F031	Moving wrong direction	Channel A/B reversed. Recalibrate p210
F211	E-Stop	Terminals 41/42
F212	E-Stop	Terminals 31/32
F325	Obstacle During Closing	Adjust force detection settings
F360	Closing edge activated	Edge detected terminals 43/44
F363	Interruption closing edge	Check for 8k input
F380	Open edge activated	Edge detected terminal 63/65
F383	Interruption open edge	Check for 8k input
F425	Overvoltage Supply	Incoming mains voltage too high
F426	Undervoltage Supply	Incoming mains voltage too low
F430	Heat sink temp out	Power stage too high
F515	Motor Overcurrent	Boost settings too high, P140/P145
F700	Position Unknown	Cali not set or recalibrate P210 to 5
F752	Loss of Comms with Encoder	Interface cable defective/No 12v supply
F766	Encoder Error	Re-calibrate P210-5
F76A	Encoder Magnetic Field	Re-fit magnet further into encoder
F7A2	Expansion Board error	Loss of coms master/slave
F930	External watchdog error	Moisture on board / Hardware error

**COMPLIANCE & RESIDUAL RISK ASSESSMENT**

Company name:

Company address:

Job reference:

Site address:

**Site & system description**

New                       Repair                       Planned maintenance                       Modification

Other: \_\_\_\_\_  
 \_\_\_\_\_

Expected operations per hour:

**Weather conditions:**

What weather conditions will the system be exposed to?

Inside location                       Outside location                       Sheltered                       Exposed

Estimated maximum wind gust speed:

Other:    Has product been force tested: Yes / No Results:

**Activation methods:**

Hold-to-run                       Free exit button                       Loop free exit                       Radio fob

Keypad entry                       Intercom                       Proximity access control                       GSM/phone activation

Other:

Residual risk description		Residual risk control measures applied/proposed
1		
2		
3		
4		
5		
6		
7		
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9		
10		

Operation and maintenance instructions suitable

**Declaration**

Completed by:

Signature:

Date:

# Commissioning Certificate



We certify that the system covered by this certificate has been commissioned satisfactorily.			
Site Name		Completion	
Site Reference		Engineers Installing	
Installation Commenced	/ /	Commissioning	
Equipment Fitted			
Handover Date			

Part 2. Existing Installation Items not covered under warranty/ This certificate:

### Part 3. Certificate Signing off

Installers Name		Signature	
On Behalf of		Date of Signing	
Address		Position	
Client Name		Signature	
On Behalf of		Date of Signing	
Site Address		Position	

### Part 4. Onsite training for product usage

Trainers Name,	Date	Competency / Job Title	Signature
Attendees Name	Date	Signature to confirm understanding	



This Manual **must** be completed in accordance with the guidelines below, **at any point** service/repair work is carried out on the product. This is to achieve two things;

1. To keep a history of the product for yourself and your supplier/manufacturer.
2. To keep an accurate log of any historical or recent modifications, and/or problems, to help an engineer in the event of any future work required on the product.
3. This page is continued on the next page if extra space is needed.

Date	Reason for visit/Action taken	Engineers Signature
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## Declaration of Conformity

In accordance with BS EN ISO/IEC 17050-1:2010

**We:** Ultimation Direct Ltd

**Of:** Trent Lane, Maltkiln lane, Newark, Notts NG24 1HN In

accordance with the following directives:-

Supply of Machinery (Safety) Regulations 2008

Electromagnetic Compatibility Regulations 2016

The Radio Equipment Regulations 2017

Hereby declare that:

**Equipment:** Automated Pedestrian Gate

**Model no:** D6150

Are in conformity with the applicable requirements of the following documents:

Supply of Machinery (Safety) Regulations 2008.

BS EN 12453:2017+A1:2021 Industrial, commercial and garage doors and gates—Safety in use of power operated doors— Requirements.

BS EN 12604:2017 Industrial, commercial and garage doors and gates—Mechanical aspects—Requirements and test methods.

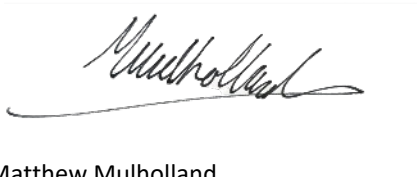
BS EN 13241:2003+A2:2016 Industrial, commercial and garage doors and gates - Product standard. Products without fire resistance or smoke control characteristics.

BS-EN12978:2003 Industrial, commercial and garage doors and gates. Safety devices for power operated doors and gates. Requirements and test methods.

BS EN 13856-2:2013 Safety of machinery. Pressure sensitive protective devices. General principles for the design and testing of pressure sensitive edges and pressure sensitive bars.

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Regulations.

Signed:



Name: Matthew Mulholland

Position: Technical Director

Place: Newark

Date: March 2026

**Specification**

**Maximum Gate Length:** 5 .0 metres  
**Power Requirement:** 230v, Single Phase, 50Hz, 16 Amps  
**Drive Motor:** 3 Phase motor & wormed gearbox  
**Opening/Closing time:** 8 - 10 seconds (variable)  
**Duty Cycle:** 100% continuous duty rating  
**Finish:** Oxy primed and painted in selimix direct

**Control:** Push-button Open and close - Photocell/safety edges for safety. Dead man keyswitch on the Control panel

**Motor/gearbox**

Combined Worm=PAM NMRV/NMRV Power / 040/075 / Ratio (i1xi2)=750(25x30)  
 Input Dim.=Ø105x14 (IEC 71 B14) / Connection (Worm Wheel-PAM)=Ø18-Ø19  
 Hollow Output Shaft Dim.=Ø28 / Execution=PS2 / Mounting Position=U / Output Cover=Standard  
 Pos.J / Ral 5010/Ral 5010 Blue  
 \*\*\* Motor \*\*\* Three-Phase / 071 / 4 / 0,37-0,45 kW / S1 / Standard Efficiency  
 Regulations=CE / 230/400-265/460 V / 50-60 Hz / Insulation Rating=F / IP56  
 Thermal Protectors=3x Thermistors PTC 130°C / Self-Ventilated / Ral 5010 Blue  
 Terminal Box=Pos.4 / Supplier=Motovario  
 \*\*\* Features \*\*\* VI-Lubrication=Eni Telium VSF 320  
 VI-2nd Red. Lubrication=Eni Telium VSF 320

**Made in the UK**

