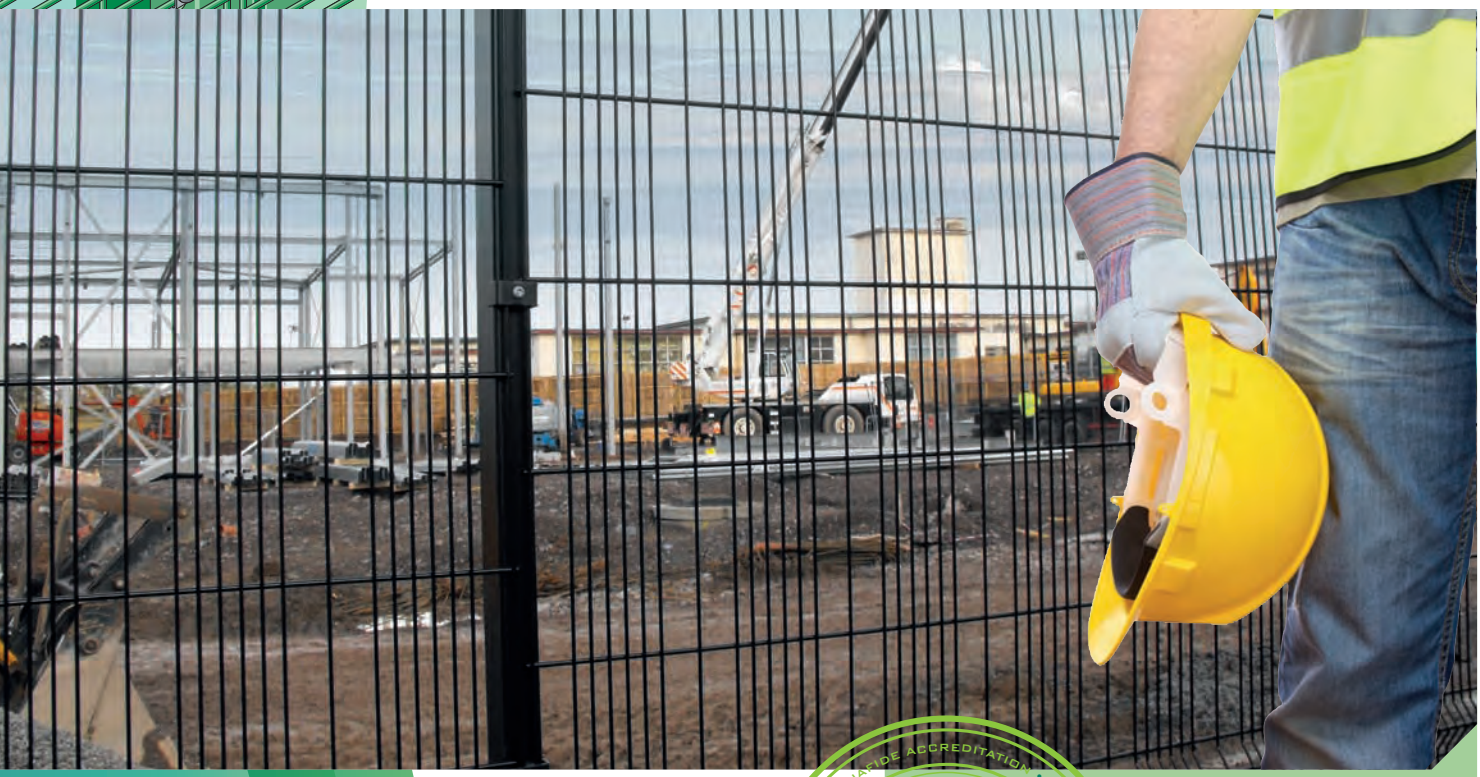
CLD Fencing Systems

The Operation and Maintenance Manual



APPROVED CONTRACTOR

CLD Fencing Systems

CERT No. 123456

BONAFIDE ACCREDITATION

High security | High quality | Longevity

Operation and Maintenance Manual

Date:

Site Name:

Site Address:

CLD Invoice No:

Invoice Date:

System Details: (from invoice)

Height:

Supplier Details

CLD Fencing Systems
Unit 11 Springvale Business Centre,
Millbuck Way
Sandbach
Cheshire
CW11 3HY
Contact: Vernon Wells
T 01270 764751 **F** 01270 757503
E sales@cld-fencing.com
W www.cld-fencing.com

Lockmaster Gates

Gates of various sizes to suit the above mesh systems, including single leaf pedestrian access. All Lockmaster gates should be carefully adjusted to ensure minimum gap in the locking area. Any closing mechanism should be correctly installed exactly as manufacturer's instructions to ensure best possible operation.

Slidemaster Gates

Correct installation is essential to the smooth operation of the gate – Electrical modification should never be considered, additional access peripherals should be checked with the manufacturer.

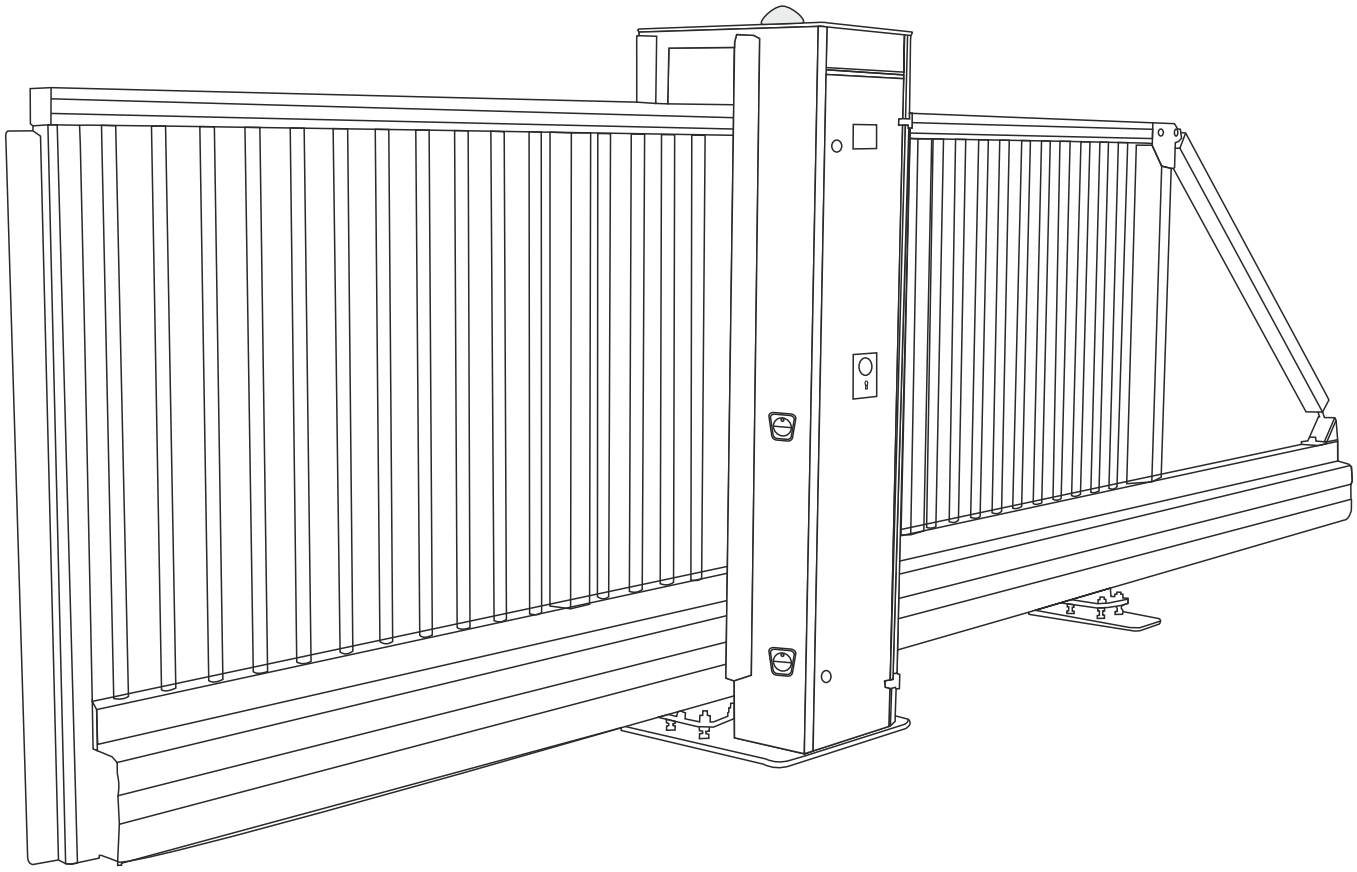
Maintenance

Cleaning to be carried out as necessary, using warm water and a very mild detergent or car shampoo. Periodic checking of fixings is advised and tighten as necessary. Gates require maintenance checks on a monthly basis or sooner, with hinges tightened and adjusted to keep gates hanging true. Locks to be checked and tightened where required. All moving parts to be lubricated on a regular basis. (Spare parts readily available from CLD).

Conformity:

All systems are fully compliant with BS1722 part 14.

O&M Manual
Revision 4.2S



GB

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 has 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 in the single phase supply and any loops etc and then power up. In this manual there is important information on how to do this, but most importantly of all how to do this safely. Please approach any task responsibly and safely.

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 an engineer. Please contact our service department to obtain a quote. As we manufacture the products we are best suited to care for your equipment.

Thank you for your custom and welcome to the exciting world of Total Traffic Flow Solutions.

Important Safety Notice

Sliding Gates are designed to Control the flow of vehicular traffic primarily. 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 fail safe 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

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.

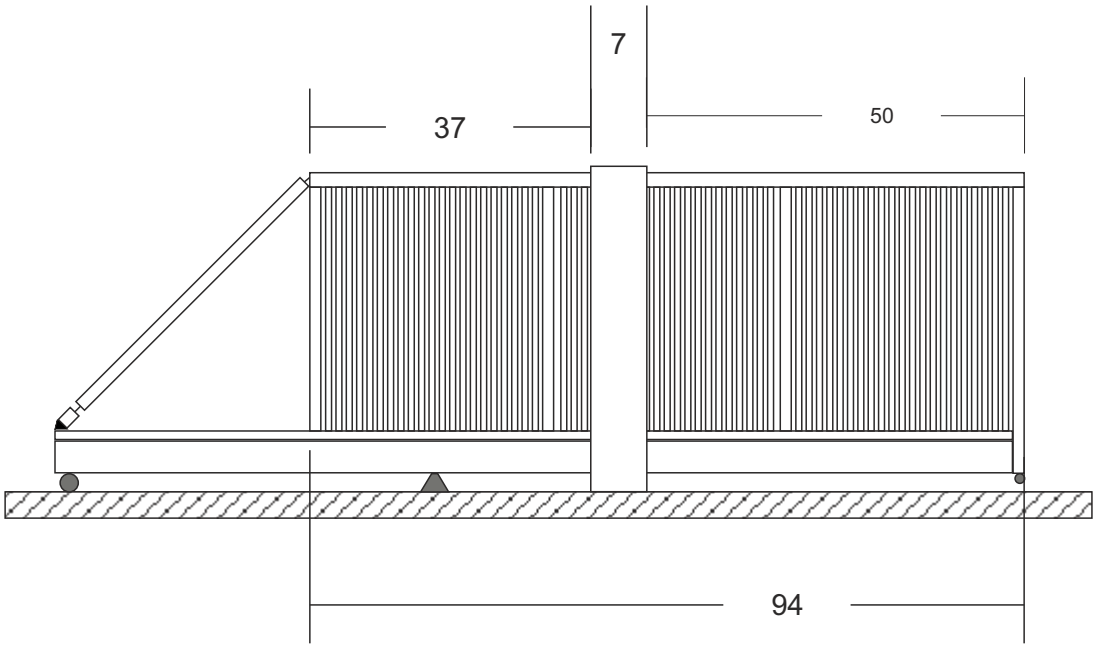
The "Warnings" leaflet and "Instruction booklet" supplied with this product should be read carefully as they provide important information about safety, installation, use and maintenance.
Scrap packing materials (plastic, cardboard, polystyrene etc) according to the provisions set out by current standards. 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 the following European Directives: 89/336/CEE, 73/23/EEC, 98/37/EEC and subsequent amendments. As for all non-EEC countries, the abovementioned standards as well as the current national standards should be respected in order to achieve a good safety level.

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 the following European Directives: 89/336/CEE, 73/23/EEC, 98/37/EEC 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 gate should ALWAYS! be in the central position before any movement commences, this ensures that the gate does not distort or get damaged. Refer to Manual Release instructions on Page 6 of this manual to move the gate into this position.

Illustration shows gate central to main tower



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

- All drivers are qualified hi-ab certified
- All drivers are tested once yearly
- 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

HSC
Health & Safety Commission

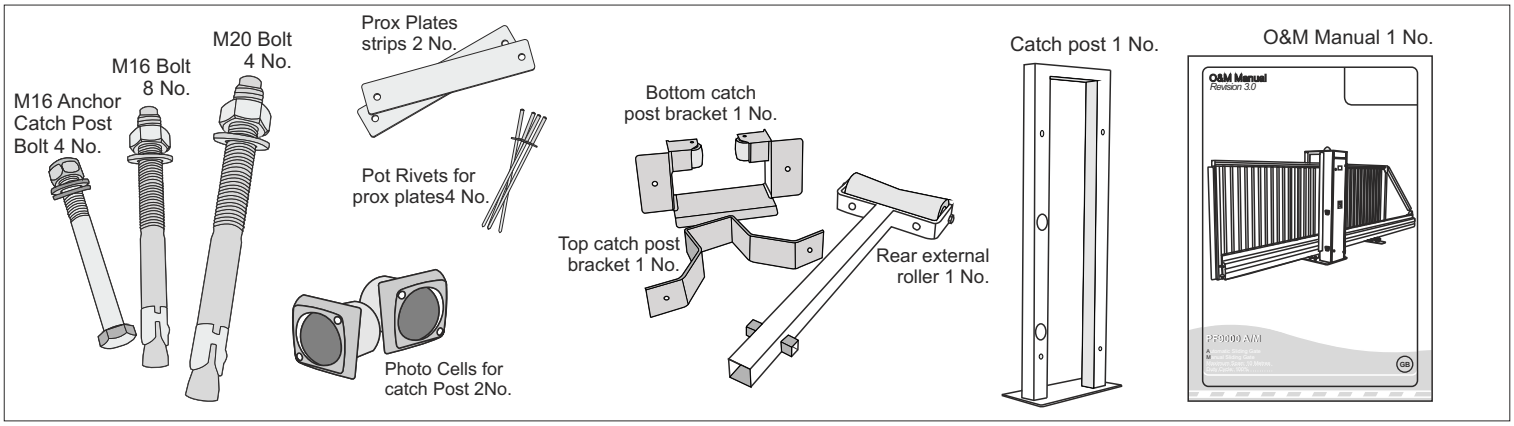
Health and safety Considerations:
Moving Goods Safely (MGS) is a national project involving both the Health and Safety Executive (HSE) and Local Authorities (LA) working in partnership. The project aims to reduce injuries and ill-health arising from the movement of goods from supplier through haulier 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)

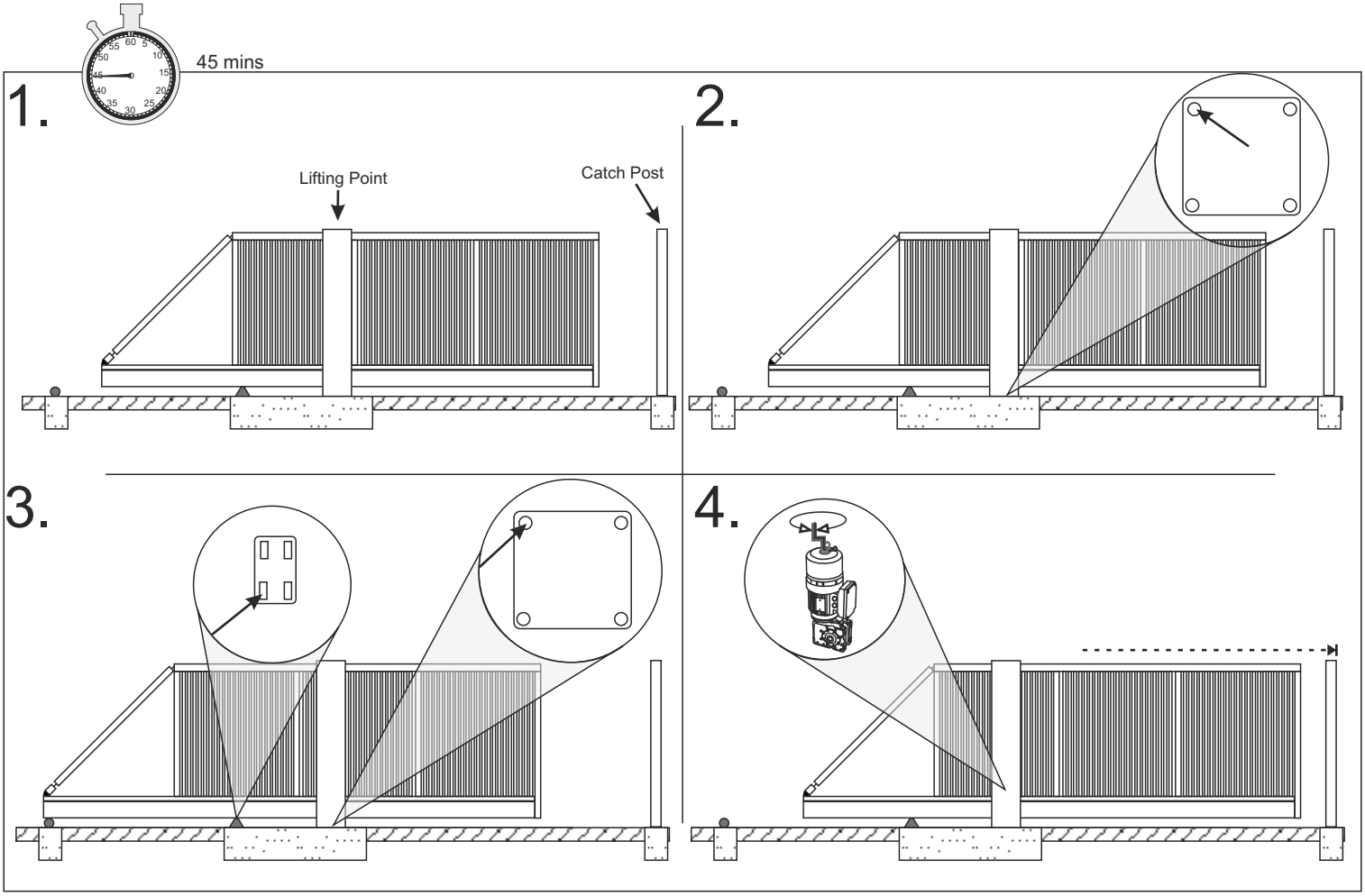
Component Identification and Notes:

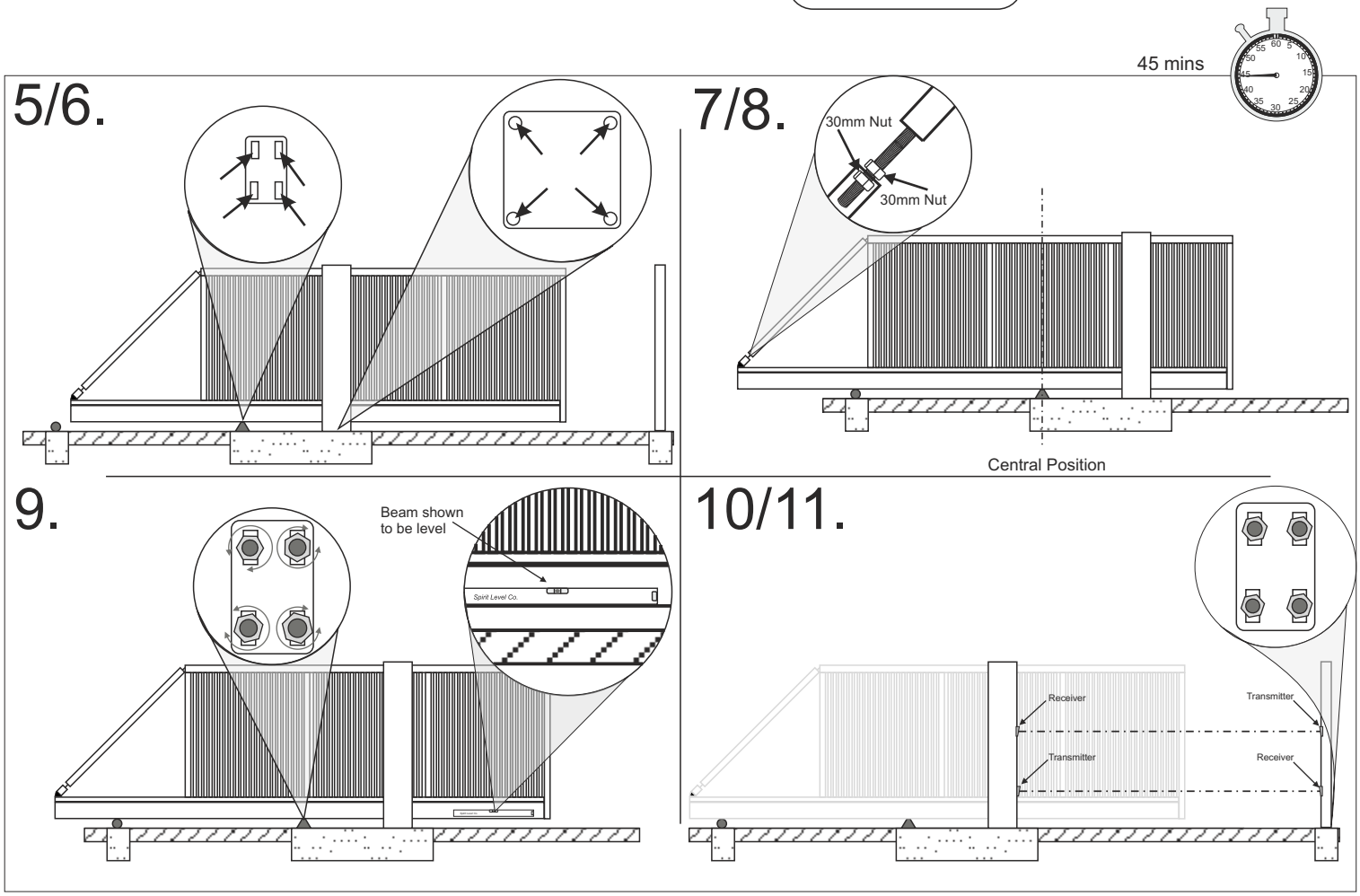
You should check that you have received the following in your order as they are referred to throughout this manual (note this can change per gate spec i.e. manual components are different from automatic):



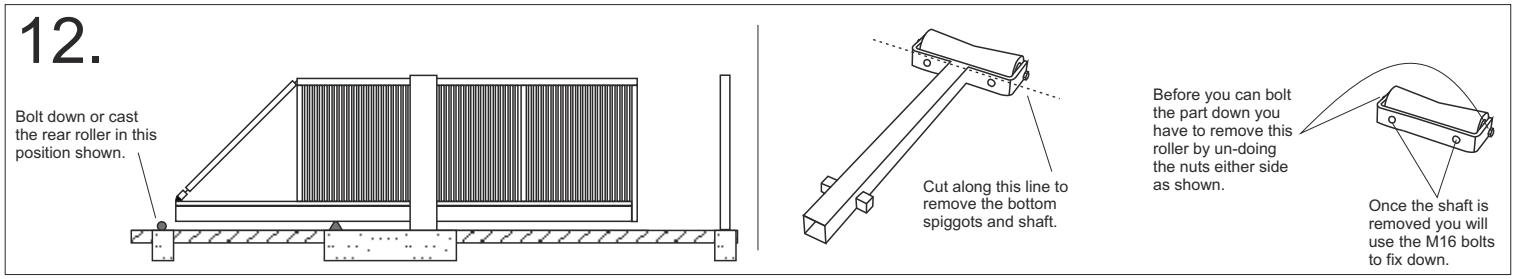
The numbers in the text document below relate to the drawings below.

1. When delivered, the gate is locked in a central position so that the gate is balanced when lifted from the top of the tower.
2. Lower the gate onto the plinth and visually align the gate and catch-post into position. Using one M20 fixing, bolt down the main tower using one of the rear bolt-down holes.
3. Making sure that the gate is still visually aligned, use one M16 fixing and bolt down the rear support wheels (on the opposite side to the hole used on the main tower) see below.
4. Manually slide the gate into the closed position to fine tune the alignment of the gate with the catch post.(See Page 6 for details on Manual Release)





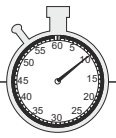
5. Manually slide the gate back into the central “balanced” position taking care not to move the tower or rear wheel support base plate.
6. Finish bolting down the rear support wheel base-plate and the main tower of the gate making sure that it is true and square in both directions.
7. Slide the gate until the centre of the lower main beam is in the centre of the rear support wheels and the centre of the main tower i.e. have the lower main beam supported centrally by the rear support wheels and the drive rollers.
8. Undo the 30mm nuts that lock the cantilever arm adjuster to relax the cantilever arm and leave the gate in an unstressed state.
9. Placing a level on the centre of the lower beam or lower rail, adjust the rear wheel support until the lower main beam is level. Manually pull the gate closed and adjust the cantilever until the gate is level.
10. Using a laser square or similar, make sure the photo-cells from the Main Gate Housing to the Catch Post line up (this should be already level as it is governed by the plinth levels).
11. Now fit the two photo cells provided in the pre drilled holes and connect using the wiring diagram (page 8). Once the Photo Cells have been connected, complete the installation of the Catch Post using 4 x M16 fixing bolts (supplied) making sure that it is true and square.
12. Now most important of all, you must fit the rear roller as shown (under the parts list on the previous page), which is universal in the way it can be fitted. It can either be used as a “cast in” post, or the bottom strut can be cut off and used as a “bolt down” roller all illustrated below.



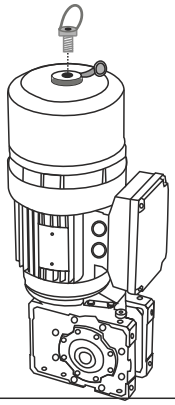
Manual Release Guide

*PF9000 **A***
*PF9000 **M***

Please use the following instructions to operate the gate manually, the following is assuming you have powered down the unit and opened the main tower door:

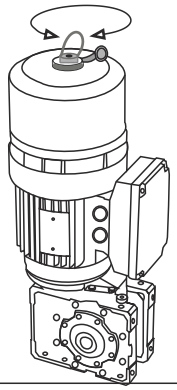

10 mins

1.



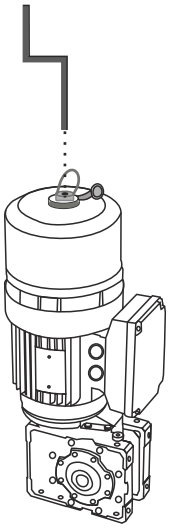
Remove the dust cover plug then get the brake release key from its holder in the cabinet and insert it into the top of the motor.

2.



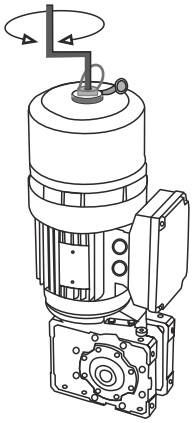
Keep pushing with a downwards pressure and turn clockwise to screw into the hole which will release the brake. Do this until you feel it is hand tight.

3.



Remove the release key from holder on the door then insert the release key in the exposed hole.

4.



Now the Key is inserted fully into the top hole turn clockwise to open and anti-clockwise to close. After this you must remove the brake key and replace the bung. FAILURE TO DO THIS WILL ALLOW DAMAGE THE BRAKE/MOTOR AND THE GEARBOX. **!!!!!! THIS IS VERY IMPORTANT!!!!!!**

Gate Maintenance

*PF9000 **A***
*PF9000 **M***

IMPORTANT NOTE

HSC Health & Safety Commission

In order for the equipment to comply to the legislation/directives noted in this document it must be maintained and have a maintenance schedule as documented in Regulation 5 of “The workplace health & Safety Welfare Regulations 1992"

As stated at the beginning of this manual we recommend a bi-annual service, but at a bear 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 issues/risks associated with not complying to this. Also in order for your gate to keep complying with the appropriate legislation.

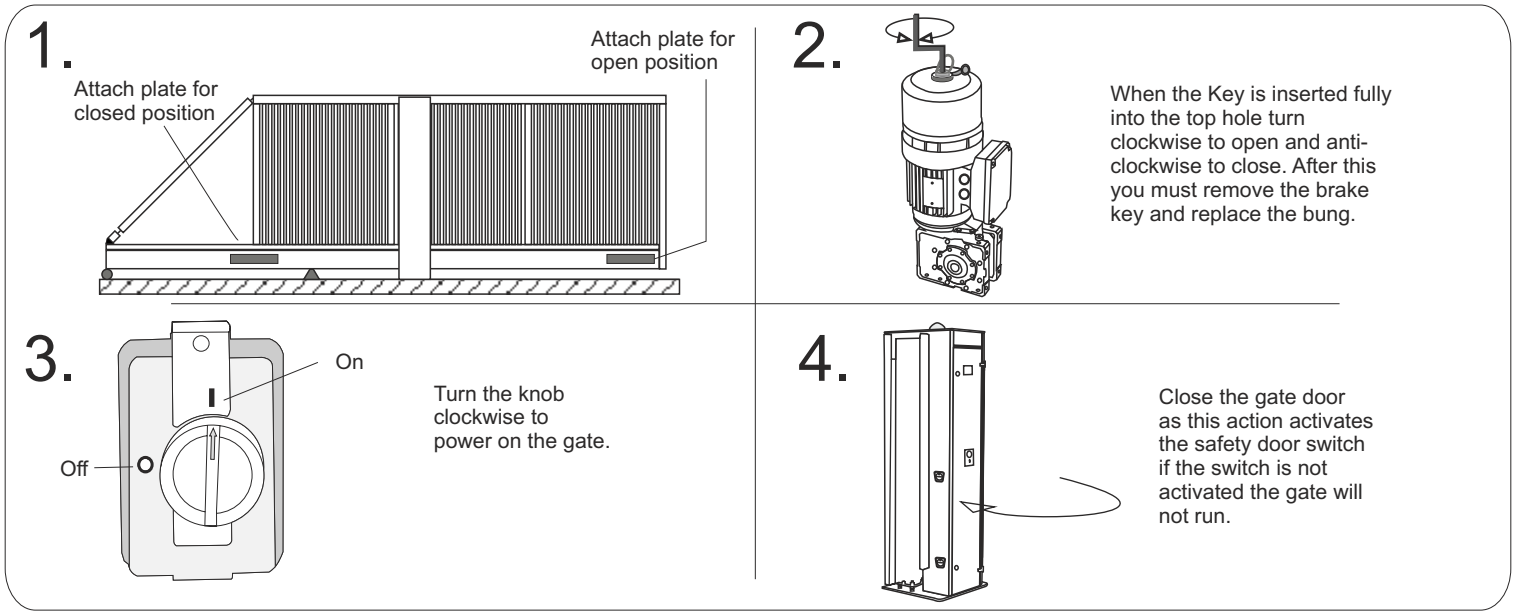
- Before carrying out any maintenance to the installation, disconnect the mains power supply.
- Make sure you have disconnected/Isolated the power before attempting any work.
- A Maintenance Contract should be sought from a specialist company after a maximum of 5000 manoeuvres or 1year from the install date.
- Occasionally clean the photocell optical components and make sure they are free from dirt, water, rain, soil etc..
- 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.

Operating the Gate

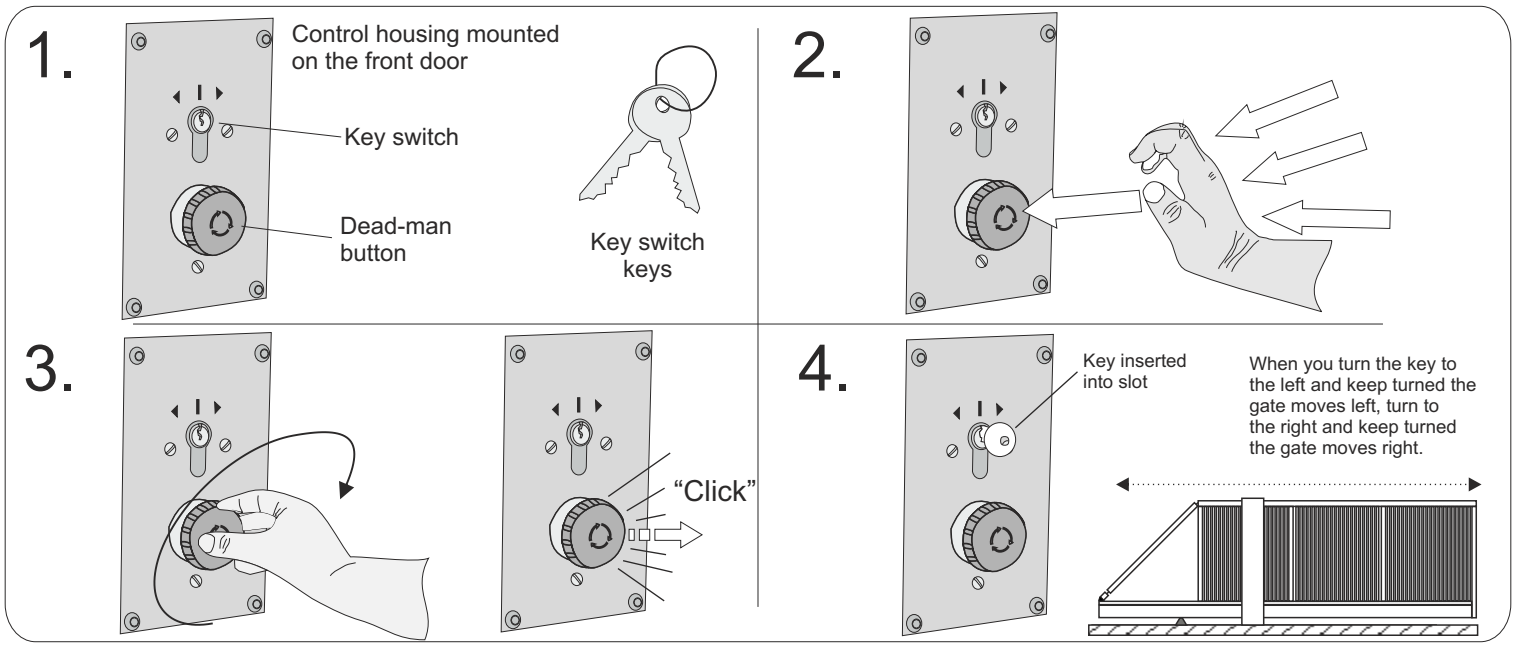
PF9000 **A**
PF9000 **M**

First Operation Manoeuvres

1.Affix the prox strips to the gate with tape (temporarily) to gauge the correct location. Once established drill and affix the prox strips using the pot rivets supplied. n.b. the plates tell the gate when to stop.
2.Follow the manual release guide in this manual and make sure the gate moves un-hindered by inserting the winding handle and turning to make the gate open and then close.
3.If the above step is ok then proceed to close the gate using the manual method and then power on using the isolator switch as shown.
4.Now the cabinet door must be closed for the gate to work automatically.



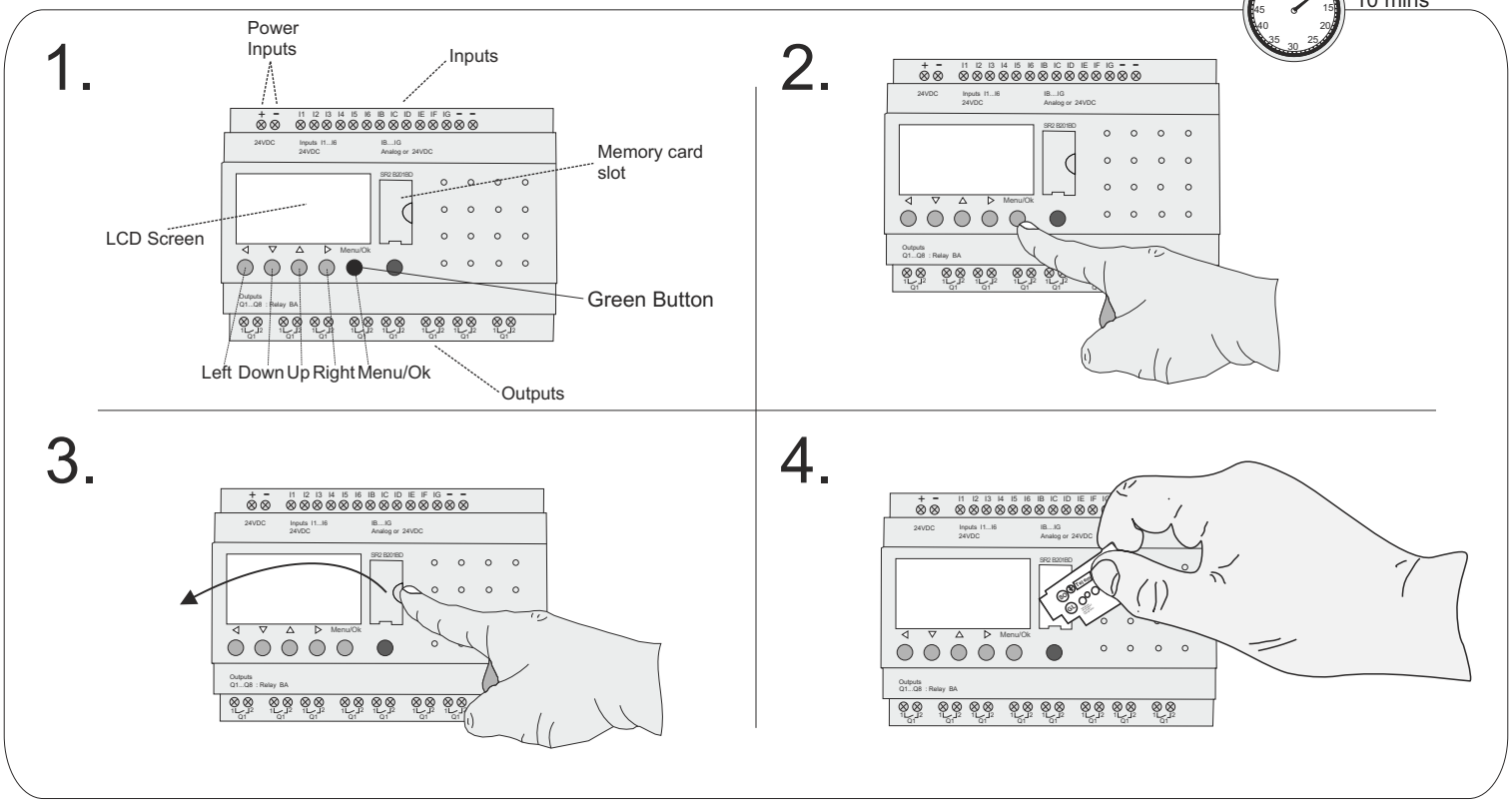
There are many options to operate the gate as it is dependant upon which type of access control you have connected. However there is a standard way to operate the gate by using the key switch and the dead man button. Instructions are assisted by pictures below.
1.Picture shown below is the key switch and deadman button located on the gate tower (auto model only), also the key switch keys.
2.To stop the gate dead, press the red button in toward the gate as illustrated.
3. To reset the button afterwards, to resume normal operation, twist the red button to the right until you feel it “pop” back out.
4.To override the gates movement place the key in the key switch, as illustrated, then turn the key in the direction you wish the gate to travel. Note this is momentary so you have to keep the key turned in the position of travel.



PLC Usage Guide

PF9000 A
PF9000 M

10 mins



1. Shows where key components are located on the Programmable Logic Control.
2. To program the PLC using the instructions below the only tool you need to use is one finger making sure to press the correct buttons in the correct sequence.
3. To upload a new program via a PLC memory chip open the memory card slot flap and move to step 4.
4. Now follow the instructions below very carefully. When asked to insert the chip, hold the chip so that the memory word is the correct way up and at the top. Then with even force push forward into the slot so its sits flush to the PLC housing. Once inserted leave it in place until you are asked to remove it. After all steps have been completed you MUST replace the slot cover.

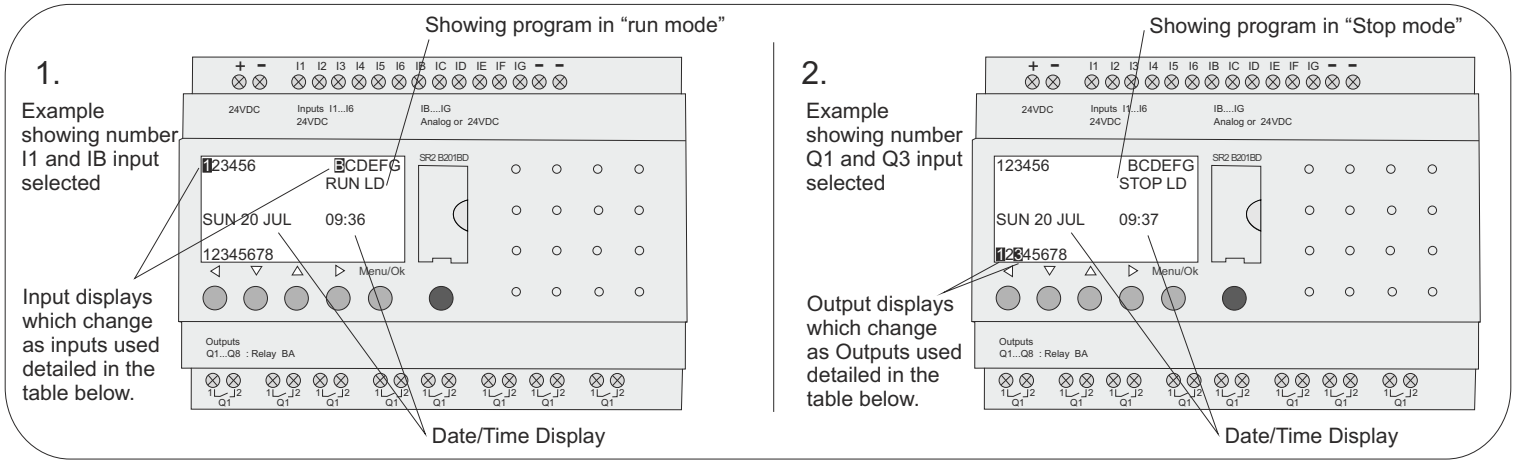
Steps to upload a new program from PLC:

1. Press menu / ok button once.(Green Button)
2. Scroll down to run / stop (flashing).
3. Insert New PLC chip
4. Press menu / ok button to stop program.(Green Button)
5. Press menu / ok again.(Green Button)
6. Scroll down to transfer (flashing).
7. Press menu / ok button once.(Green Button)
8. The screen will display transfer:
   Zelio > memory
   Memory > Zelio
9. Scroll down to **Memory > Zelio**. **NOTE! this is very important to select the right path as you may risk wiping the memory!!**⚠
10. Press menu / ok button.(Green Button)
11. When downloaded TRANSFER OK / STOP LD will be displayed.
12. Press menu / ok button.(Green Button)
13. Scroll up to run / stop (flashing).
14. Press menu / ok button.(Green Button)
15. Screen will display RUN PROG.
    YES (with nonvalent) (flashing)
    NO
16. Make sure “YES” is selected then press menu / ok button.(Green Button)
17. The chip has now been downloaded.
18. STOP CIRCUIT BROKEN may now appear on the screen because the cabinet door is open.
19. Now replace the memory slot cover!.

Electrical Troubleshooting Guide

PF9000 A
PF9000 M

The table (bottom) relates to the diagram directly below to help you trouble shoot electrical component errors

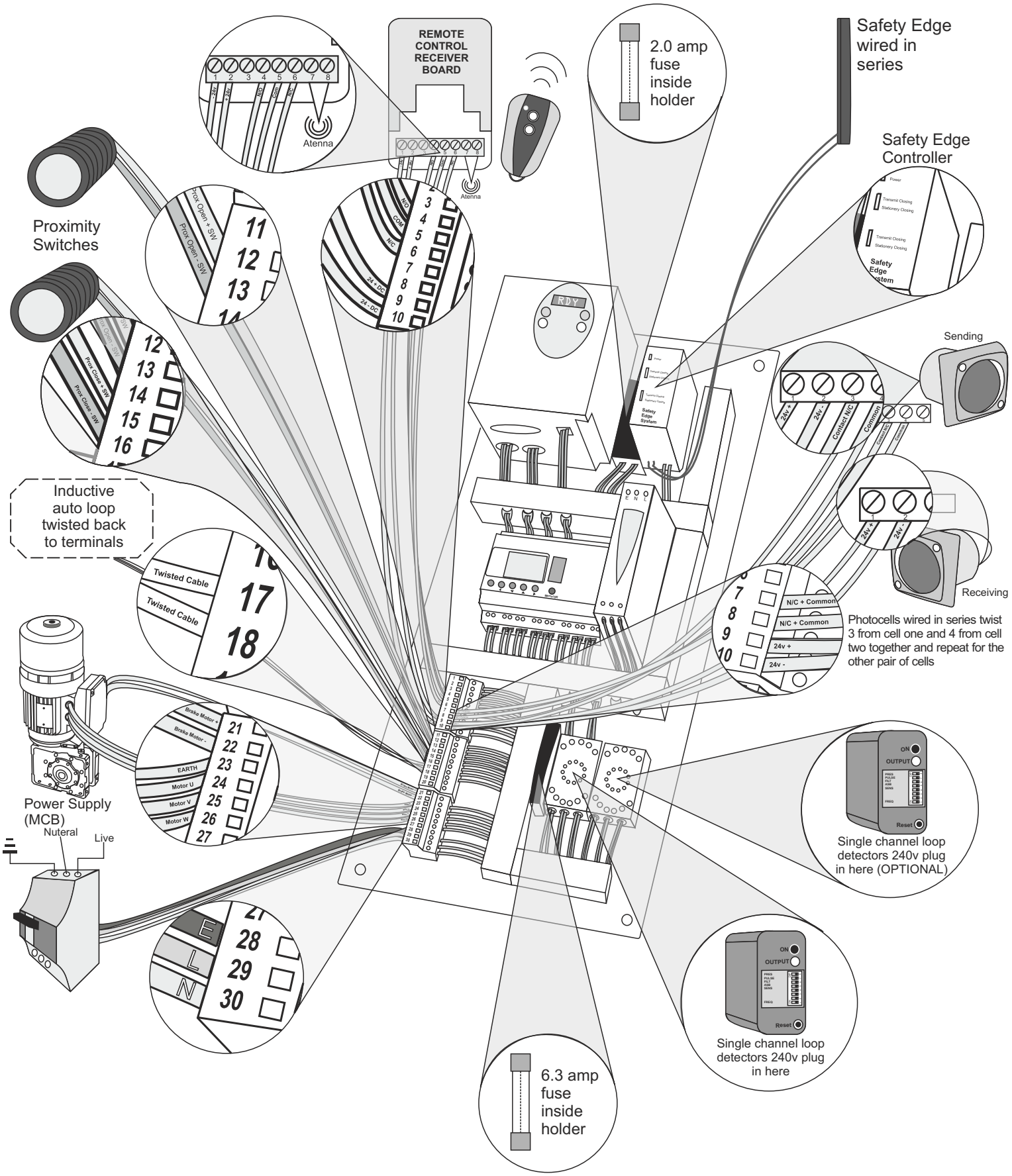


1. Inputs			
Input	*Polarity*	*Connected to*	*Operation when active*
I1	Normally Closed	Stop button	Gate stops if the circuit opens
I2	Normally Open	Open signal	Opens gate
I3	Normally Open	Close signal	Closes gate
I4	Normally Closed	Closing safety edge	Opening this circuit causes the gate to reverse and stop if closing, or stop quickly if opening.
I5	Normally Open	Pedestrian open signal	If gate is closed, opens to pedestrian passage width. If gate is open, closes.
I6	Normally Closed	Opening safety edge	Opening this circuit causes the gate to reverse and stop if opening, or stop quickly if closing.
IB	Normally Closed	Photocells	Open circuit indicates vehicle passage to trigger closing (when enabled). Also causes gate to reverse if closing and beam is broken.
IC	Normally Open	Loop detector	Opens gate (if enabled)
ID	Normally Open	Closed proximity detector	Indicates gate is shut – stops gate when closing.
IE	Normally Open	Open proximity detector	Indicates gate is open – stops gate when opening.
IF	Normally Open	Key switch - “open” position contact	Opens gate whilst asserted. Gate stops when released. Overrides Stop input.
IG	Normally Open	Key switch - “closed” position contact	Closes gate whilst asserted. Gate stops when released. Overrides Stop input.

2. Outputs			
Output:	*Polarity:*	*Connected to:*	*Operation when active:*
Q1	Normally Open	Motor controller open direction	Active to open gate
Q2	Normally Open	Motor controller close direction	Active to close gate
Q3	Normally Open	Brake release or light flasher	Active whilst gate is moving and for a few seconds after (defined by timer T6)
Q4	Normally Open	Motor controller acceleration profile select	Active when gate is performing an emergency stop or reverse, to select fastest acceleration profile

Wiring Diagram (Illustration)

PF9000 A
PF9000 M



Below shows the wiring diagram for the Phoenix Circuit Block, (Figure a).The table on left corresponds directly with table on right.

No.	Input Description Box colour denotes cable colour
1	Stop Circuit Common
2	Stop Circuit
3	Open Common
4	Open Switch0
5	Close Common
6	Close Switch
7	Photo Cell Common
8	Photo Cell Switch
9	Positive 24DC/CPostProxy
10	Negative/CPostProxy
11	Prox Open Positive
12	Prox Open Switch
13	Prox Open Negative
14	Prox Open Positive
15	Prox Close Switch
16	Prox Close Negative
17	Free Entry/Exit Loop
18	Free Entry/Exit Loop
19	Not Used
20	Not Used
21	230v+ Brake Motor
22	230v- Brake Motor
23	Earth
24	U
25	V
26	W
27	Not Used
28	Earth
29	Live 230v Supply
30	Neutral (From Isolator)

MOTOR

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30

Terminal's 9&10 are for the catch post proxy's or any other accessory that requires 24DC

Coloured Description Boxes Denote Cable Colour

Troubleshooting Guide (electrical)

PF9000 **A**
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ELECTRICAL ERRORS	CAUSE	CORRECTION
Blank screen on PLC but power to other devices in the control panel	Door switch circuit not making	Press door switch in and check PLC screen
	PLC has developed an electrical fault or had a power spike	Check Fuse
gate does not run (stays open)	Check inverter is in ready (rdy) mode on display	Power down then back up
	Loop detector is faulting or sensing presence	Clear obstacle or reset the detector
	Check inverter settings	ACC - 7.5 DEC – 6.0 LSP – 17.00 (Variable)
	gate staying up in open position	Access control giving a constant pulse shorten this
	Photo cell batteries (if fitted)	Check that the fitted batteries still have power to them. They should only be replaced with special 3.6V Lithium-ion batteries made for purpose. These can be provided by your supplier
	Photo cells dirty (if fitted) OR cell allingment	Clean photo cells make sure they are debris free or re-align
Mains on but no power	Isolator fuse	Check and meter fuse in isolator
gate not opening	Access control may be faulty	Remove and check gate function via the PLC
gate staying open and not closing	If photo-cells fitted then batteries may have expired	Check and if needed replace batteries
	Faulty loop detector	Check & set or replace faulty unit
	gate does not have loops fitted or these have been removed	Call the technical department for assistance the program/wiring needs to change
	Key switch left in open position	Put the switch back into the “Auto” position
	Permanent supply/signal to the raise terminals	Check wiring to terminal blocks remove any access control try again
	gate programmed for safety only or gate is on a timer	Contact your supplier for a program modifacation chip

Troubleshooting Guide (mechanical)

*PF9000 **A***
*PF9000 **M***

MECHANICAL ERRORS	CAUSE	CORRECTION
gate leaf keeps going backward & forward	photo cell fault	check and reset photo cells
gate creaking when moving	Check all drive points secure/dry	Oil or grease moving parts
gate motor not running	Loss of voltage	Check motor supply test 3 phases
gate not opening or closing	Damaged track	Replace track
gate not opening or opening half way	Gearbox	Gears stripped due to overlading replace
gate opens slowly and closes too fast	inverter settings wrong	change inverter settings using instructions on electrical error page
gate not running at all	Door has been left open or switch not pushed in	Close the door and issue a signal to open or close
gate open will not close	Key switch is left in open position	Turn key switch to auto
	Loop fault or loop detecting	Check if green light is on detector if so remove object that it is detecting or replace loop

Notes area

*PF9000 **A***
*PF9000 **M***

Potential System Hazard Areas

*PF9000 **A***
*PF9000 **M***

Please note these are things that you should look out for with the equipment that has been installed on your/your customers site. This is in no way a health and safety guide just a few key areas for you to be aware of and possibly make future changes to.

Plan view (from above)
Sketch system layout, detailing and numbering potential hazard areas for the client.

Potential Hazard Areas - see diagram:

1.....

2.....

3.....

4.....

5.....

Additional Comments / Descriptions concerning safety on this site

.....

.....

.....

.....

.....

.....Signed:.....

Test/Manafacturing Check List

PF9000 A
PF9000 M

Section 1. What type of Gate do you require?

PF9000M Manual Sliding Gate ☐ PF9000A Automatic Sliding Gate ☐

Section 2a. Additional Information

Additional Information for our records

What is the span of the clear opening?	Gate length =	mm
PF Quote Refrence		
Your Order Number		
Customer Contact No.		

Colour code required: (please specify RAL or BS Colour Below)

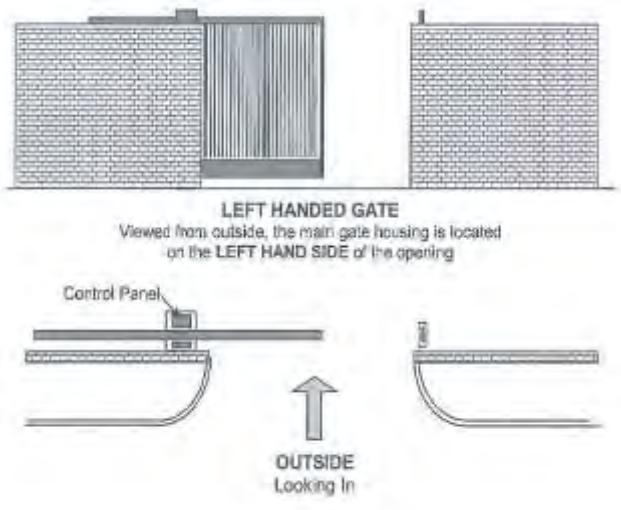
Height of Gate required	
Spikes Required? (yes or no)	
Type of Infill Required:	
Todays Date:	
Required Delivery Date:	

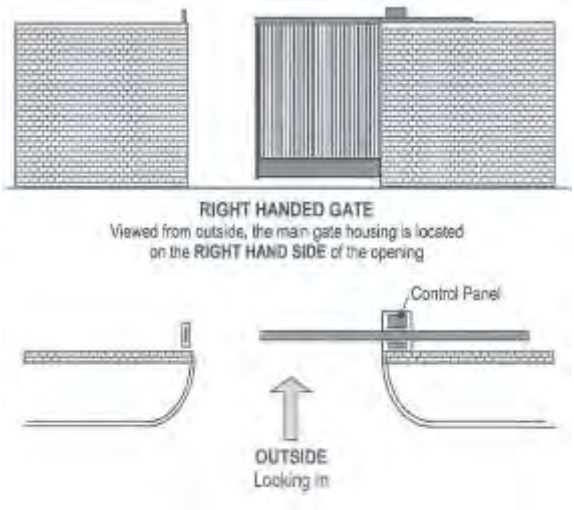
If more than one Gate how are they operating?

Master/Slave ☐

Independant ☐

Section 3. Gate Handing Choice





I require a LEFT handed gate shown above ☐

I require a RIGHT handed gate shown above ☐

Section 4. Accessories Required

☐ UPS Battery back-up used for panel protection and gate can open/close automatically after power loss. **HIGHLY RECOMMENDED!**

Section 5.a Delivery or Install Address

☐ PF to install equipment

☐ PF to supply only

Section 5.b Additional Information (Use a separate sheet if necessary)

Installation/Commissioning Check List

PF9000 ***A***
PF9000 ***M***

System Operation - The user FULLY understands	YES	NO
How to operate the system with all control devices	☐	☐
How to isolate the power to the automation system	☐	☐
How to manually release the system in event of power failure	☐	☐
The safety rules and issues associated with your system	☐	☐
Safety devices on the system have been verified and checked	☐	☐
Safety devices and features suit the site/application for which it was designed	☐	☐
How to open the door on the equipment	☐	☐
Check the following items	**YES**	**NO**
Door keys have been handed over	☐	☐
Key switch keys have been handed over	☐	☐
All equipment and site has been left in a clean and safe state	☐	☐
Any warning signage has been fitted by Engineer/Client to make people aware	☐	☐
Any times and special programming instructions undertaken	☐	☐
Product works the way site need it to this includes “no passage time out” etc	☐	☐
System has had the completed conformity certificate	☐	☐
All items on the delivery note have been handed over to client/site - this should be signed for on the separate sheet which is titled “Delivery Note” (green/ or yellow paper) if parts missing call supplier	☐	☐
The engineer has expressed the importance of regularly maintaining the equipment	☐	☐
POWER ISOLATION - The power isolator for your automation system is located at: ..... 		

The following denotes that the above has been completed to a satisfactory standard. The engineer has explained the system of operation to you and any devices that you have had fitted. If this is agreed and has been displayed please sign in the indicated fields below. All information will be passed on correctly to other system users. The users of the system will use this system correctly and safely.

Engineers Name: ..... Engineers Signature: .....

Clients Name: ..... Clients Signature: .....

Service Log

PF9000 **A**
PF9000 **M**

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.

Date	Reason for visit/Action taken	Engineers Signature
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Commissioning Certificate

*PF9000 **A***
*PF9000 **M***

We certify that the system covered by this certificate has been commissioned satisfactorily.

Contract Reference		Completion	
Contract Title		Engineers Installing	
Installation Commenced	/ /20	Commissioning	
Works Description			
Part/Whole Certificate			
Handover Date			

Part 3.The system(s) designed and installed in accordance with the following documents:

Document Ref:	Revision	Description
PF9000A/M	4.2	System guides and drawings as defined within O&M Manuals

Part 4.The following test procedures refer:

Check Lists (pages 15 & 16) /Commissioning Certificate

Part 5. Existing Installation Items not covered under warranty/ This certificate:

Part 6. Certificate Signing off Section

Installers Name		Signature	
On Behalf of		Date of Signing	
Address		Position	
		Parts Handed Over	Qty:
Client Name		Signature	
On Behalf of		Date of Signing	
Address		Position	
		Parts Handed over	Qty:

Declaration
of
Incorporation

We hereby certify that the machinery stipulated below complies with all relevant provisions of the EC Machinery Directive and National Laws and Regulations adopting this Directive.

Manufacturer & European Agent:	CLD Fencing Systems Unit 11 Springvale Business Centre Millbuck Way Sandbach CW11 3HY
Telephone:	01270 764751
Description:	Automatic Cantilever Sliding Gate
Model Number:	PF9000A
Serial Number:	
EU Directives & Standards Applied:	The above product is in conformity with the essential Health and Safety requirements of the Machinery Directive 2006/42/EC and the following transposed harmonised standards, BS EN 292 Parts 1 & 2:1991, BS EN 60204 Part 1:1993, BS EN 294:1992, BS EN 249:1993, BS EN 418:1992, and BSEN13241-1 including other standards BS EN 12445:2008, BS EN 12453:2008.

Responsible Person:

Name: Anthony Wells

Signature:

Position: Managing Partner

Date: 2nd November 2010

TECHNICAL DATA AND DIMENSIONS

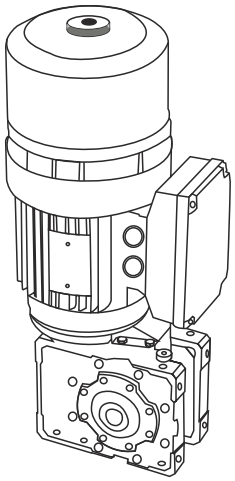
PF9000 A
PF9000 M

Electric Motor:

400v 50hz 3 phase Braked Motor
4 pole
IP54
B14 C face mounted
Frame size 80
Output power: 0.75kW
Current @ 400v: 2.2A
Rated speed: 1400rpm
Power factor(cos): 0.67
Ts/Tn: 2.5
Is/in: 4.3
DC Brake In (mA): 150
Zo (starts/hour): 15000
Moment of inertia (Jx 10-4 Kgm2): 17.19
Max brake torque (Nm): 18
Net weight 15kg

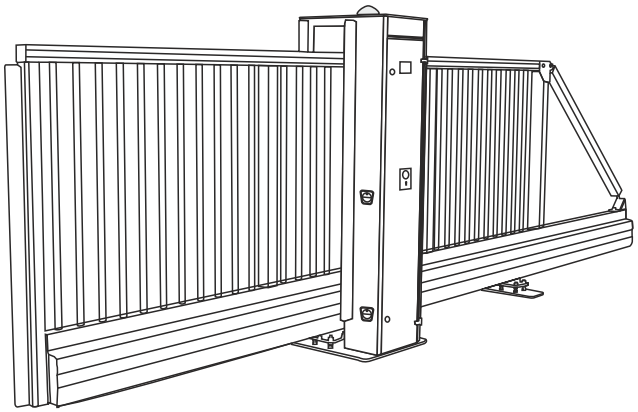
Geared Motor Spec:

Type: Worm & Wheel
Overall speed: 200 rpm
Max rated torque: 320nm
Actual torque: 32nm
Gearbox efficiency: 90%
Output size: 30mm
Mounting position: V5
Angular Backlash: 20' +/- 5' / 0.00582 +/- 0.00145
Lubricated with: Shell Tivela S320
0.48 litres



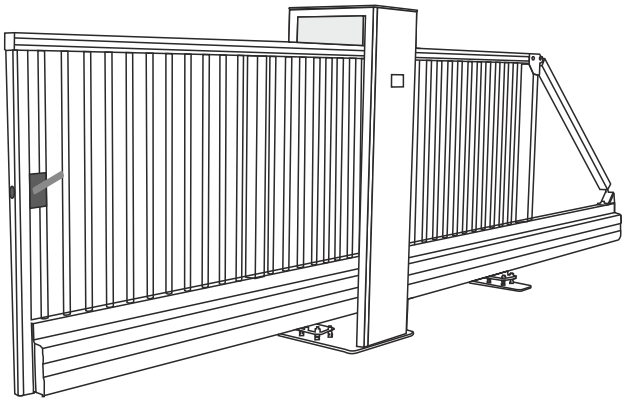
PF9000 A

Specification: CE Approved BS/EN 12453
Dimensions: 250mm x 225mm extruded Aluminium beam Infill – 30mm diameter x 6mm Wall thickness
Power Requirement: 230v, Single Phase, 50Hz, 10 Amps
Drive Motor: 0.75KW's - 1.1KW's, 3 Phase
Maximum Span: 10 Metres Drive-Through (14 Metres overall)
Maximum Height: 2.4 Metres (maximum width 10.0 metres)
3.0 Metres (maximum width 6.0 metres)
Duty Cycle: 100%
Operation Time: 4 Seconds per metre (Variable)
Finish: Polyester Powder Coated
Operation: Friction-driven 3 phase motor via Inverter and Programmable Logic Controller
Access Controls: Push-button, card readers, tokens, intercoms, keypads and remote fobs.



PF9000 M

Specification: CE Approved BS/EN 12453
Dimensions: 250mm x 225mm extruded Aluminium beam Infill – 30mm diameter x 6mm Wall thickness
Power Requirement: N/A
Drive Motor: N/A
Maximum Span:10 Metres Drive-Through (14 Metres overall)
Maximum Height: 3.0 Metres (maximum width 6.0 metres)
Duty Cycle: N/A
Operation Time: N/A
Finish: Polyester Powder Coated
Operation: N/A
Access Controls: N/A



CE EUROPEAN MARK CERTIFYING CONFORMITY TO THE ESSENTIAL REQUIREMENTS OF THE STANDARDS 98/37/EC

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GB 2003/108/CE Directive for waste electrical and electronic Equipments

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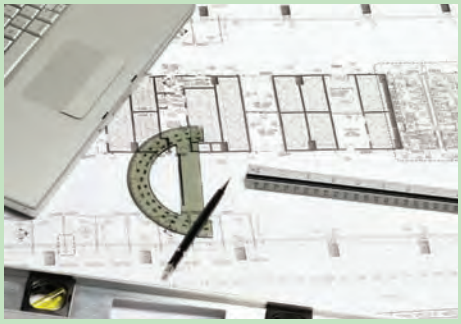
ENVIRONMENT - NOXIOUS MATERIALS

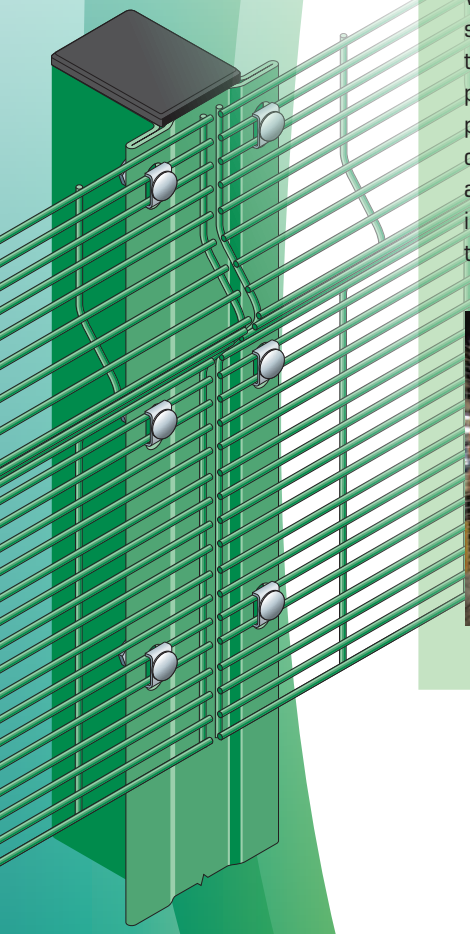
CLD Fencing Systems

CLD Fencing Systems
Over 40 years of excellence

CLD is one of the UK's leading manufacturers of rigid mesh fencing. We've been fencing specialists since the 1960s and have built our reputation on integrity as well as best of breed products.

We manufacture security fencing, sports fencing and access solutions that combine design appeal and performance excellence. Our products are the preferred choice of architects, specifiers, local authorities and fencing contractors in the UK and many countries across the world.





For more information call now on 01270 764751

or visit our website: www.cld-fencing.com

Consistency | Reliability | Confidence

CLD Fencing Systems

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