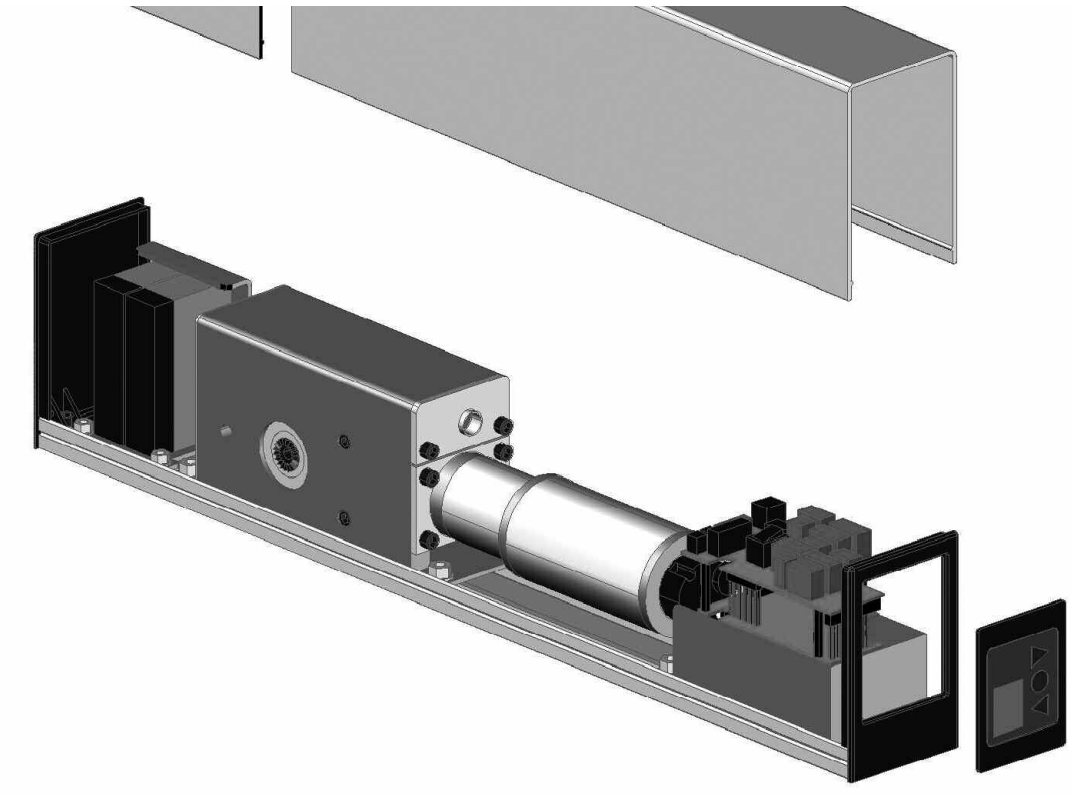
Technical Manual

Premier-Swing 85

©



CE

Table of Contents

Manufacturer's Declaration Of Conformity (CE)

Global Automatics Ltd
4 Brickfields Ind Estate
Hemel Hempstead
Hertfordshire
HP2 7QA
England

The Manufacturer Certifies That;

Product: Premier-Swing 85

Description: Automatic Door Control Equipment

This Equipment is designed to be Incorporated into an Automatic door set, not to be used Independently and must not be "put into service" until the complete door set has been declared compliant to the EC Machine Directive.

Conforms to the protection requirements of the following directives.

2006/95/EEC (Low Voltage Directive) LVD
89-336 EEC (Electromagnetic Compatibility) EMC
2006/42/EC (Machine Directive)

Date : 01/03/2012

Del Thomas (Managing Director)

CAUTION

AN INADEQUATELY INSTALLED AND ADJUSTED DOOR COULD CAUSE DAMAGE TO THE EQUIPMENT AND MAY CAUSE INJURY TO OTHERS.

- HAVE YOUR DOOR PERIODICALLY INSPECTED & SERVICED AT LEAST TWICE PER YEAR BY AN ADSA (Automatic Door Suppliers Association) CERTIFIED TECHNICIAN.
- THIS DOOR IS NOT INTENDED TO BE DISCONECTED FROM THE MAINS AT NIGHT!

Introduction

This Manual contains all the information you require to install, maintain and service your Premier-swing door operator.

The Premier-Swing 85 automatic system has been designed to create a reliable door system which is simple to install and which has an easy setup procedure.

It uses a self diagnostic system to identify faults and make installations / maintenance as easy as possible. The Unit is mounted on the door frame above the door leaf or can be door mounted where head room is not available. The Unit is housed in an attractive aluminium casing designed to complement all building Environments. The premier swing is ideal for new door systems or retrofitting to existing doors.
The unit has dedicated inputs for activation sensors or press pads, safety sensors and electric Locks.

Safety

Your door system has been manufactured to the latest applicable safety standard; in order for you to comply you will need to have the door installed to any relevant safety standards by a qualified company.

All “Danger Areas” of the door set must be indentified and protected. Examples of protection are safety sensor and barriers to prevent persons /objects entering these areas.

The manufacturer recommends that the door complies with the British standard BS: 7036: 1996 as a minimum but may need to comply with other standards such as Part M, Building regulations, The Machine Directive and / or Disability Discrimination act. Please consult the relevant professional bodies for details.

Environmental Requirements

The Premier-Swing 85 contains electronics and batteries that may have materials that could be hazardous to the environment. Please remove these products and dispose of them safely in accordance with your countries laws before the operator is scrapped.

Intended Use

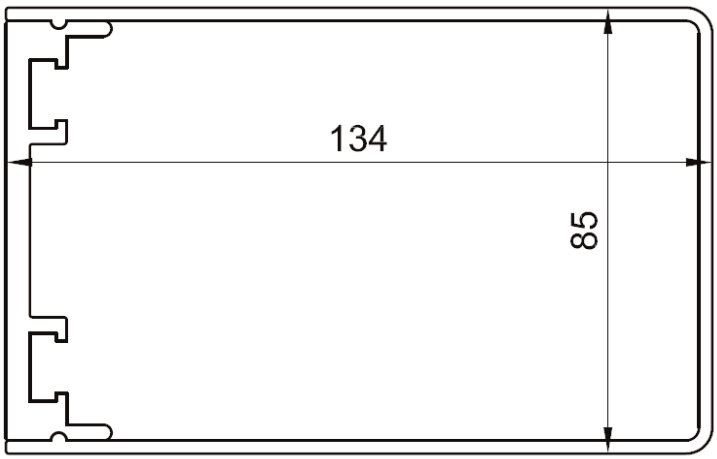
This operator has been manufactured for dry use within or inside weather tight buildings. It is intended to be incorporated into a complete automatic door set, not to be used independently.

Main Features:

Personalised Colour Logo
Self diagnostic system
Fast Installation – minimal tools required.
Monitored battery backup
Switch-able Motor direction (Push or pull)
Slim-line mode switch: available in Surface, flush fit and End Cap options.
Dedicated plugs for each sensor
Easy adjustments via the Access Panel

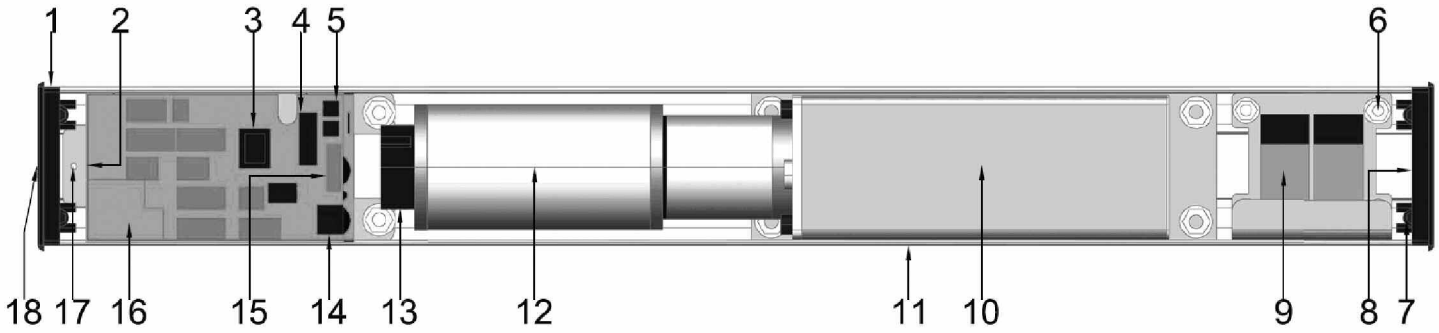
CUSTOMER MODES

Automatic
Exit Only
Enter Only
Hold Open
Closed



Prior to Installation

- **Make sure Hinges and Pivots are in good order**
- **Make sure installation areas are properly re-enforced on door / frame**
- **Confirm Which Operator Type to access which side of the door you will be fitting the Operator to. (Push or pull)**
- **Complete necessary Risk assessment**



1 Access Switch – End cap
2 Mains Fuse (4Amp Quick Blow Glass 20x5mm)
3 ON/ OFF Switch
4 Battery Fuse - (5Amp Quick Blow Glass 20x5mm)
5 Battery Connection plugs
6 M8 Locking Nut
7 M6 Pan head -16 mm
8 STD End Cap
9 12v O.8ah Batteries
10 Spring Gearbox
11 Spinal drive shaft
12 Motor
13 Encoder
14 Master / Slave socket – RJ45
15 Motor Connection Plug
16 IEC Mains inlet (240v)
17 Control Unit Fixing Screw
18 Access panel / Screen

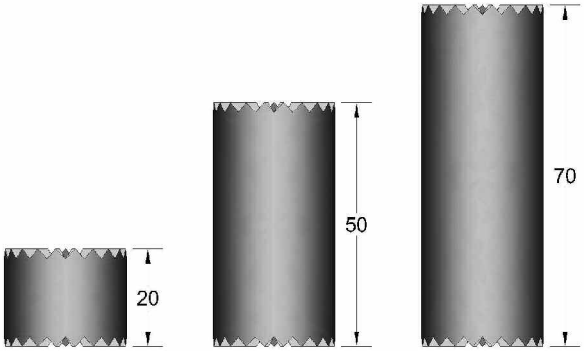
Tools Need for Installation

- 13mm Spanner
- Door Force Gauge
- 2mm Insulated flat head screw driver
- 5mm Allen key
- 4mm Allen Key
- Screw driver to suit the fixings you are using
- A Drill

Push Arm

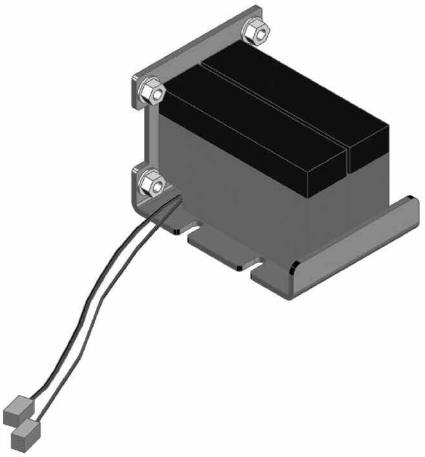
Pull Arm

Drive spindle Extensions

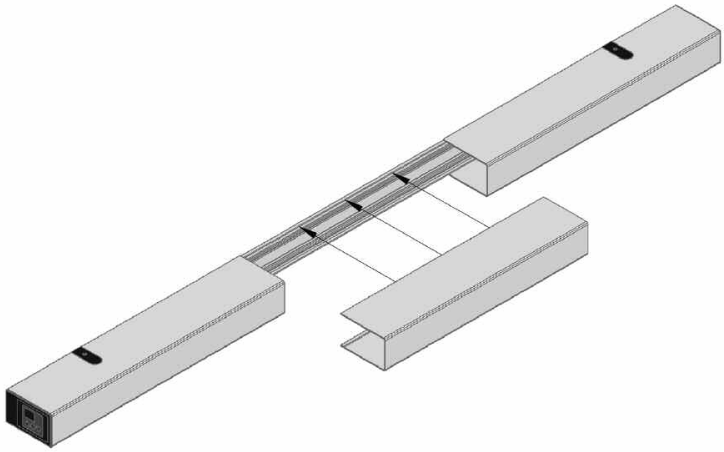


Battery Backup

-2 x 12v Seal Batteries (0.8aH)

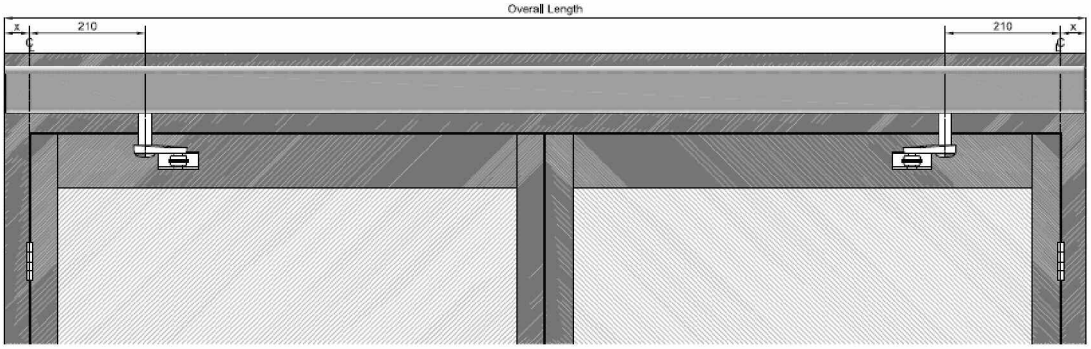


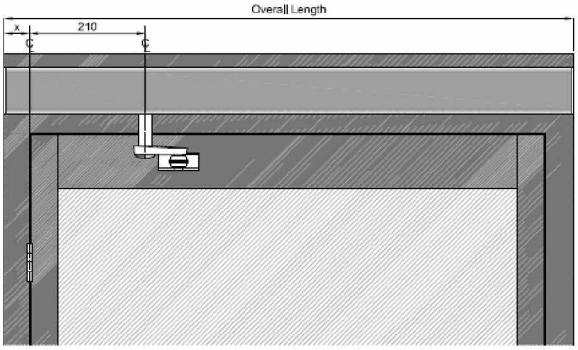
Continuous Cover



Option 1 – Cover Insert

We can supply the continuous cover by the Meter and you can insert a piece in-between the 2 x Installed Units for a continuous look





Option 2 – Full Cover

Using the Diagram measurements above, we can supply a continuous cover over the pair of units.

DOOR OPENING

If one of the Sensors or Devices is activated the Door will open at the adjusted speed to approx 10 degrees before the stop point, decelerate and gently open up to the door stop.

If the Sensor or input continues to activate, the door will remain held open. After a pre-adjusted hold open time, the door will close.

DOOR CLOSING

The Door will close at the adjusted speed to approx 10 degrees before the stop point, decelerate and gently close up to the door frame. A "Lock Kick" facility is selectable to provide the certainty of engaging when an electric locking device is installed.

DOOR HOLD TIME

This is an adjustable time (in seconds) that the door will count down from, once it reached its open position before it closes.

KEY HOLD TIME

This hold open Time is only for activations that are wired into the KEY input. (Predominantly used for morning entry key-switches.)
This is an adjustable time (in seconds) that the door will count down from, once it reached its open position before it closes.

LOCK DELAY

An adjustable time – 0 – 5 Second delay after unit is activate until it starts to open (Used when fitting electric locks)

LOCK TYPE – SAFE/SECURE

Fail safe – Power to lock – Default when off is UNLOCKED
Fail secure – Power to unlock – Default when off is LOCKED

LOCKING FUNCTIONS – IS THE LOCK ON IN EACH FUNCTION

AUTO – YES/NO
CLOSED– YES/NO
ENTER– YES/NO
EXIT – YES/NO

LOCK KICK / LATCH – 0 T0 10

5: Smooth closing, to be used on doors without lock.
10: More powerful closing, to be used on doors with lock, to overcome binding in the locking device. Last 7 degrees of closing

HOLD CLOSE FORCE – 0 T0 10

Increase the number to increase the amount of force applied when the door is in the closed position. Ideal for windy locations

EMERGENCY LOCK

If this function is switched on then the door will lock when it reaches "closed" upon the activation of the emergency stop circuit.

REBATE

Default = Enabled
Please Disable if you do not have rebated doors.
The master door leaf will pause at approx 15 degrees from closed and wait for the slave leaf to get fully closed before continuing home.

MORNING ENTRY
This impulse will open the door in any Operating Mode.
Options (Via Access):

- 1 MASTER ONLY OPEN
- 2 SLAVE ONLY OPENS
- 3 MASTER AND SLAVE OPEN

POWER ASSISTED OPENING (0 – 5) 0 = NO HELP
Set to 0, the door gives no power assist. If the function is increased, the motor will give/increase power assist when the door is opened manually making it seem lighter.

PUSH AND GO
Push and Go is a function where when the door is pushed open manually, the operator takes over after a few degrees. The operators will then fully open, hold for the adjusted time and close in the usual manner.

BATTERY MONITORING
DEFAULT – ON
The System monitors the battery constantly to confirm it has enough power to run the door in the event of a power failure.

BATTERY MODE
This is a selectable option for the Type of operation you wish the door to do upon mains failure.

Hold open – In the event of a mains power failure the door will sit in the open position until the mains is reinstated. (Please note: If the door are left like this for a long period the batteries will flattened and the door will eventually close and stay closed)

Continuous - In the event of a mains power failure the door will continue to operate as normal on the batteries.
Please Note: If the batteries are completely extinguished, they may take several hours to recharge dependant on the age of the cells. If the door are left like this for a long period the batteries will flattened and the door will eventually close and stay closed

FIRE ALARM
Dedicated Input for fire alarm integration with the Unit communicating via a normally open / Normally Closed Volt free contact.
When the contact is activated by the fire alarm relay the unit will hold the door open until the fire alarm is reset.

Please note: this function is not available during power failure.

EMERGENCY STOP / KILL FUNCTION
Dedicated Input for an emergency stop Device via a Normally Closed volt free contact. This will stop the unit instantly. The door will return to the closed position.
In a double door application, kill is only connected to the master operator.

INTERLOCK – enable
When installed in a “security lobby” setup, the door will use one of the above modes but will ignore any activations until its sister door is in the closed position and locked.

Connection is made from the Interlock Input terminals (39 + 40) to the Lock output on the sister doors control unit.
You will need to enable this Interlock function, the “lock in Automatic” function and set the lock type to fail safe.

MONITORED SAFETY
If you are fitting on door safety sensors that have the ability to be monitored by the control unit then you need to switch on this function.

CLOSING BLOCKED REACTIVATION
If an obstruction is met during the opening cycle, the door will stop and close again.
If an obstruction is met during the Closing cycle, the door will stop and open again. (Only in low energy mode)

SERVICE NUMBER
Here you enter your service telephone Number. This is the number that is displayed on the screen when a fault is detected. Use the up and down arrow to run from 0 to 9 plus a space, when you get to the digit you need press the select button and it will move to the next character. When you have entered the whole number, press select twice to exit this screen

ASSET DESCRIPTION
Here you can enter a 9 Digit description or number; this is to help you identify the door. This will be displayed on the bottom of the screen in Grey.

DOOR INFO – mains, battery, activations
This screen gives you all the information on the system with activation sensors.
For example, If the door is stood open, you can check this screen to see if any of the activations connected to the door are active and keeping the door open.

The Batteries are monitored and are tested on a period cycle depending on their condition – the timer counts down until the next test.

Line 1 – Mains voltage
Line 2 – Battery Voltage
Line 3 – Battery Timer
Line 4 – The last activation received
Line 5 – Current Activation received
Line 6 – Any current ERRORS

FAST CHARGE = HIGH BOOST FOR LOW BATTERIES
MAINTENANCE CHARGE = TRICKLE CHARGE FOR FULL BATTERIES

IF YOU PRESS THE SELECT BUTTON WHEN ON THIS SCREEN YOU CAN FORCE A CHARGE TEST OF THE BATTERIES

CONTROL INFO SAFETY SCREEN

On this screen it gives you the details of your Fully Open Encoder Reading and Also your Open face safety encoder reading.
Fully open = the encoder position saved during the learn cycle

Open face safety Encoder – This is the encoder position learnt that is the point when the safety needs to be ignored during the open cycle. This is automatically saved during the learn cycle. Commonly used when the door leafs open against the wall.
Please note: If you connect your safety sensors after the learn cycle and they now stop the door from running its full open width you will need to re-learn the door ia a factory reset.

M)- MASTER DOOR OPEN ENCODER COUNTS
M)- MASTER DOOR SAFETY CUT OFF
S) - SLAVE DOOR OPEN ENCODER COUNTS
S) - SLAVE DOOR SAFETY CUT OFF

SET TIME AND DATE

Here you enter your time and date. This is saved when a fault is detected in fault Logs.
Use the up and down arrow to run from 0 to 9 plus a space , when you get to the digit you need press the select button and it will move to the next character. When you have entered the whole number, press select twice to exit this screen.

ERROR LOG

This is a list of the last 20 Faults recorded on the operator with the time and date.
There is also an option to clear the log if required.
To exit please press select on any of the displayed errors or scroll down to the “Clear Logs” and press select.

FACTORY RESET

This reset will clear all saved settings and put the door back to “factory settings” The door will run a learn cycle and you will have to select the preferences again.

EXIT

Press Select here to exit the engineers mode and return to the customer menu

OTHER INFORMATION ABOUT THE OPERATOR

ENTRY & EXIT ACTIVATION

The controller has dedicated internal and external connections for Sensors or Devices.
24V is made available with the Unit activating via a normally open volt free contact

SAFETY

Dedicated Opening and closing face connections for Safety activated via Normally Closed contact.

CLOSING FACE SAFETY

Normally closed Circuit – When activated this input will re open the door if the door is on its closing cycle.

OPEN FACE SAFETY

Normally Closed Circuit – When activated this input will stop the door. If the activation clears within 5 seconds then the door will continue its open cycle. If the activation is greater than 5 seconds the door will begin to close.

LOCK

The unit has a dedicated output for an electric lock.
This is switchable between fail safe and fail secure. The max output is 24v 1 Amp. After 1 second this is dropped to 120ma.

OPEN / CLOSED RELAY

An output that becomes active only when fully open / closed. Can be used for an indicator –Traffic light system / access control or buzzer. N/O - Com - N/C

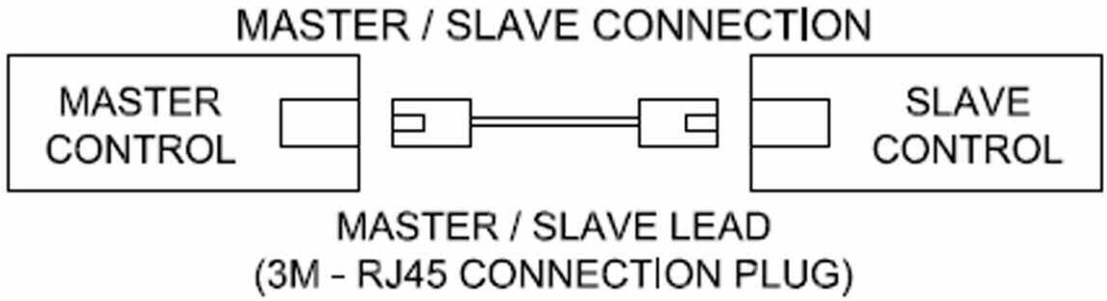
VOLTAGE ACTIVATION

An activation that is looking for a voltage instead of a clean contact – (7v - 24v) –Polarity sensitive

MANUAL OPERATION

If the door is manually opened the operator will control the door on its closing cycle. During the closing cycle the safety sensors are activated. (Please ref: Door Closing)

MASTER SLAVE LINK (The connecting lead for double doors)
Connect the Two Swing units with the Master Slave Link cable (RJ45 Plug)
Master = the operator that has the Access Panel Connected to it.
Each doors safety sensor can be wired into its own operator or all into the Master.



MAT INPUT – ONLY WORKS WHEN DOOR IS FULLY OPEN OR FULLY CLOSED

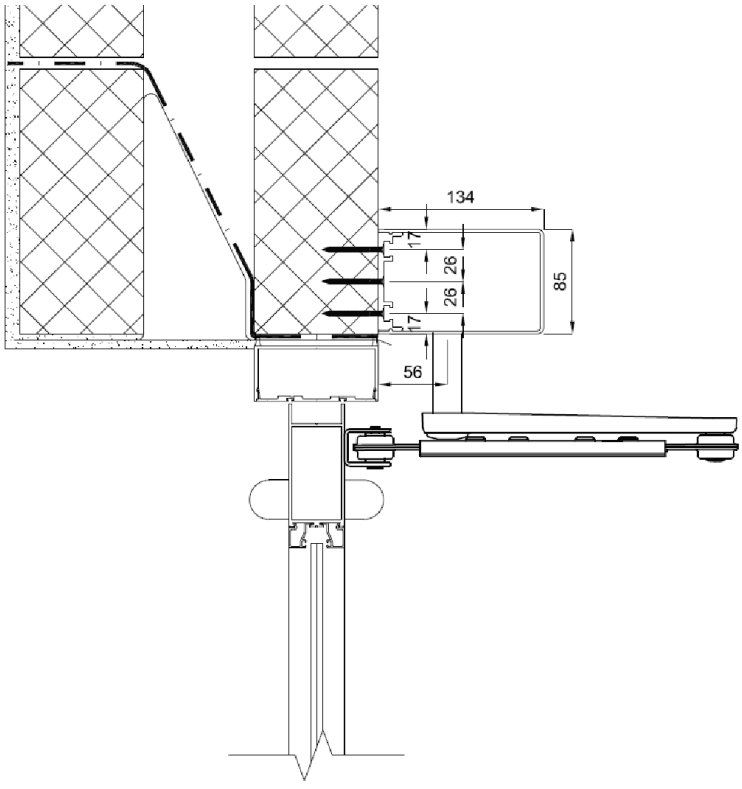
Mat safety means that:
- A closed door will not open, if someone steps on the mat
- An open door will not close, if someone steps on the mat
- During opening, the door will continue to open, even if someone steps on the mat
- During closing, the door will continue to close, even if someone steps on the mat
- Opening impulses are prevented during closing, if someone steps on the mat
- The mat is not active in program mode OFF or manually opened door

Installation - Always work in pairs.

• The operator is mounted either on framework or on the area above the doorway, which should always be checked to ensure a suitable fixing can be obtained to carry the imposed weight of the proposed door leaf/s. Below is an indicator of fixing types, this is a guide only as each door set should be assessed individually by the installation engineers.

Fixing Material	Minimum fixing requirements
Steel*	5mm
Aluminium*	6mm
re-enforced Concrete	Min 50mm up from the Underside
wood	No 10 50mm Wood Screws
Brick	Expansion Plugs/ Bolts - 50mm Fixings

* Please use Rivnuts/ Threaded Inserts for thinner wall profiles

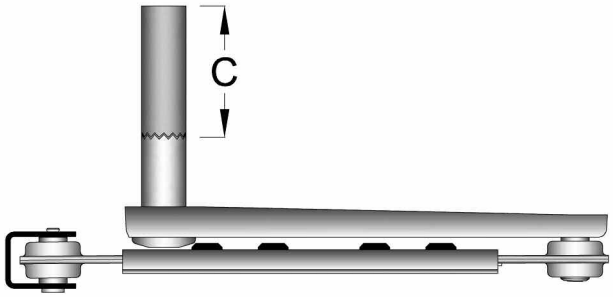


When tightening the arm to the drive output of the gearbox, please tighten to a min 35Nm

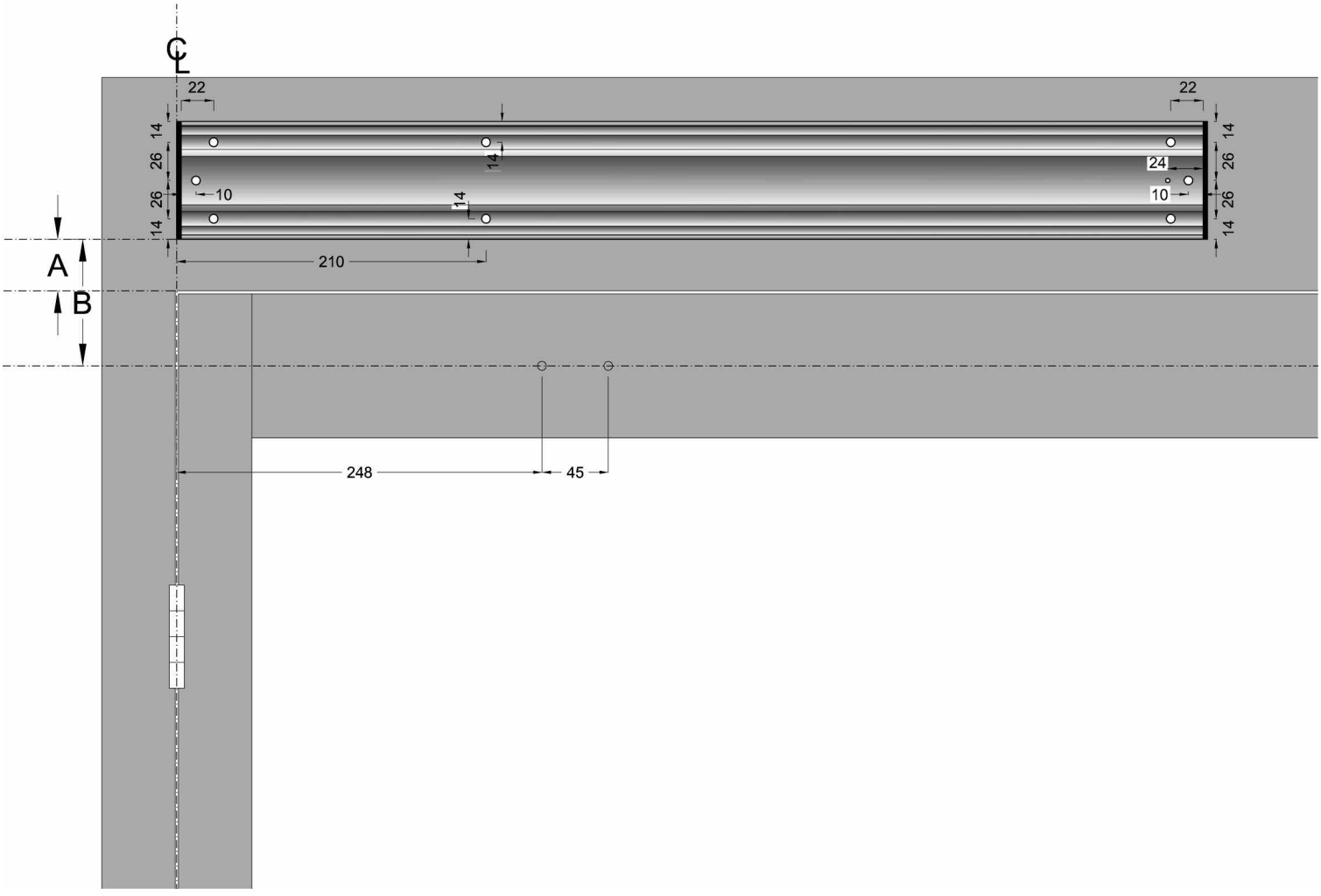
Always remove the gearbox and Control unit when drilling / fixing to the framework or wall.

If you remove the End caps during installation DO NOT over tighten the bolts upon re-install as this may affect how the cover fits securely.

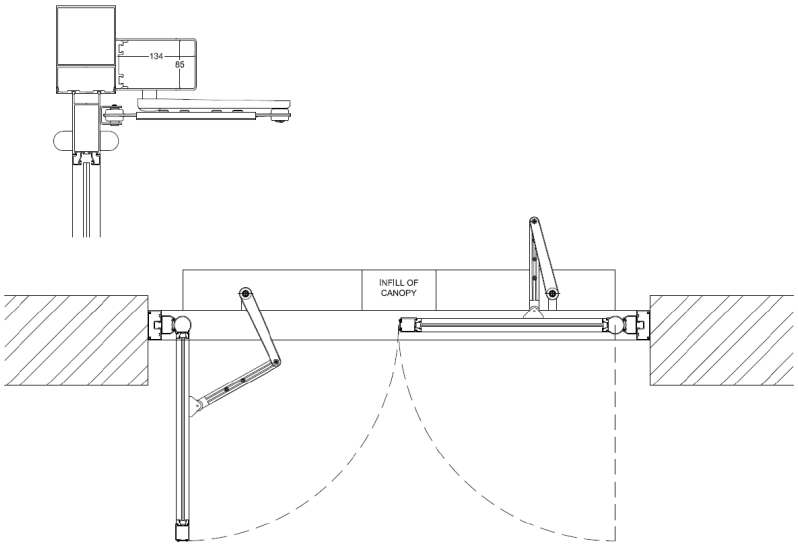
Push Unit Installation

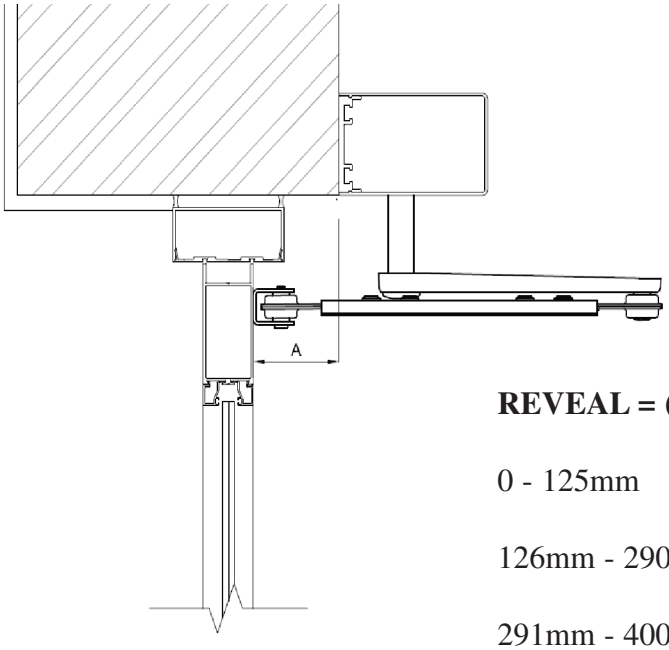


C	A	B
0	5	36
20	25	56
50	55	86
70	75	106



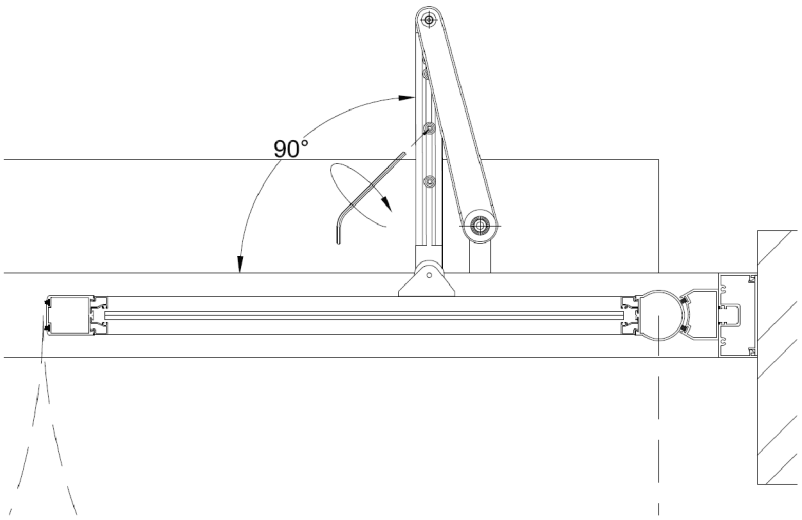
A = TOP OF THE DOOR LEAF TO UNDERSIDE OF THE OPERATOR
B =BOTTOM OF THE OPERATOR TO THE CENTRE OF THE ARM FIXING
C = THE SIZE SPACER YOU REQUIRE



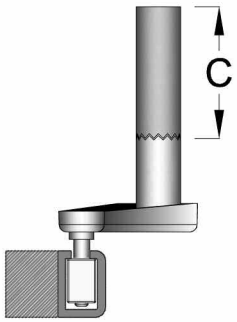


REVEAL = (A)	EXTENSION
0 - 125mm	STD ARM
126mm - 290mm	240mm + Joint Connector
291mm - 400mm	360mm + Joint Connector

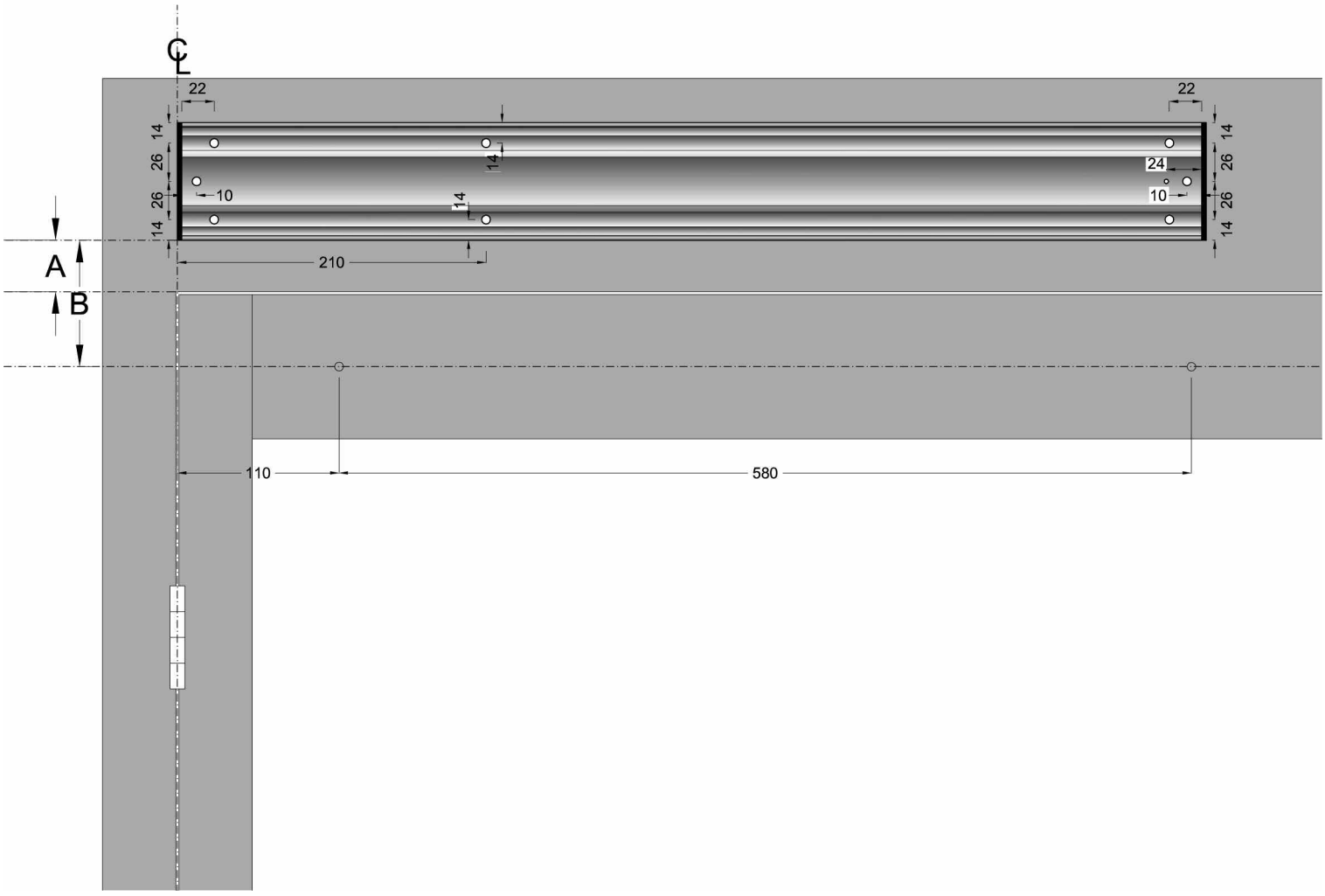
Once you have fitted the Arm Load the door in the closed position. Adjust the Arm so it is straight as per the diagram below.



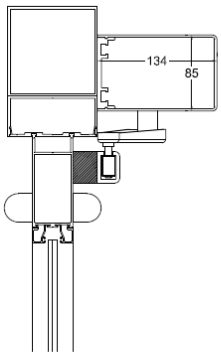
Pull Unit Installation

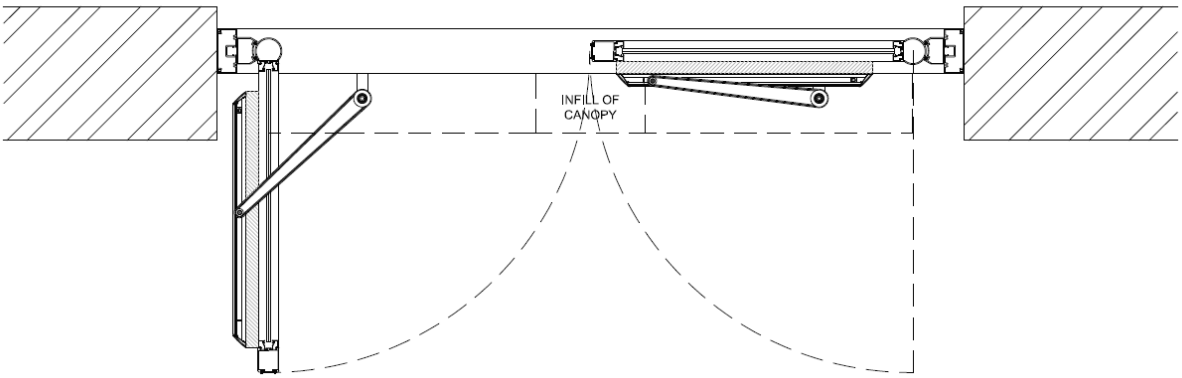


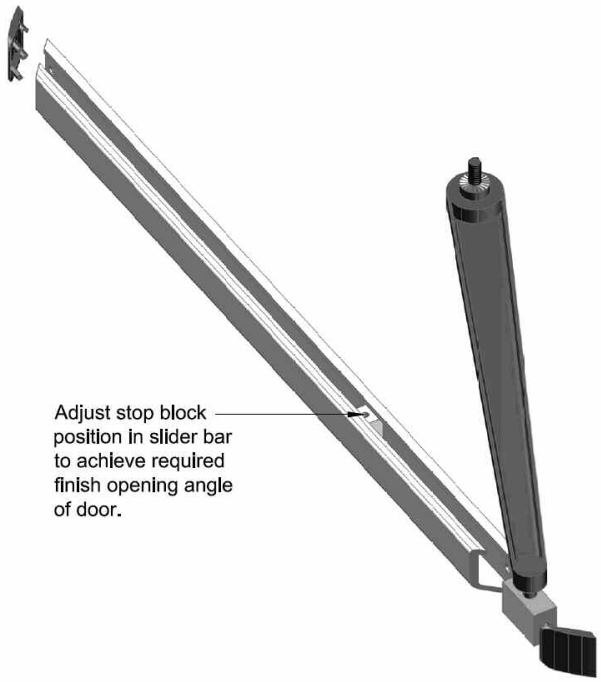
C	A	B
0	38	52
20	58	72
50	88	102
70	108	122



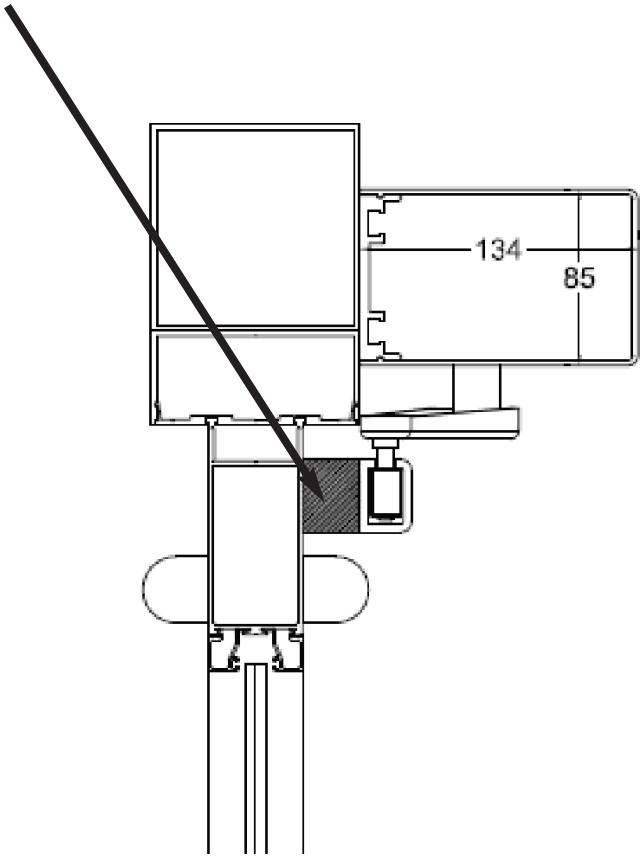
A = TOP OF THE DOOR LEAF TO UNDERSIDE OF THE OPERATOR
B =BOTTOM OF THE OPERATOR TO THE CENTRE OF THE ARM FIXING
C = THE SIZE SPACER YOU REQUIRE


134
85


INFILL OF
CANOPY


Adjust stop block
position in slider bar
to achieve required
finish opening angle
of door.

The Standard pull arm requires you to fit the back of the pull channel on the same level as the operator. If there is a difference then a packing piece must be fitted behind the pull arm .I.e. on aluminum doors that are recessed.



Access Switch

The Access Switch comes with a length of cable as standard; this can be extended as required up to 15 meters with screened cable. (Do not Disconnect the Access switch whilst the Power is on.

End Cap Switch

This switch has been designed to fit flush for installation in the end cap of the operator.
Comes complete and fitted with standard units

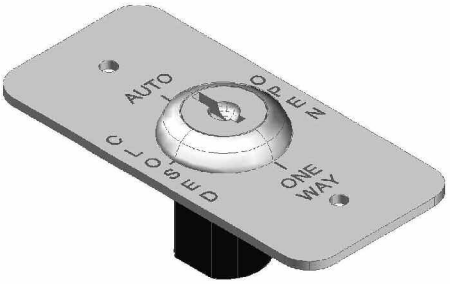
Surface Mounted

Locate a suitable position for access panel / switch and install using 4 x screws. If mounting to a hollow section such as aluminum frame mullion, you will need to drill a 20mm hole so the wiring can be concealed within the hollow

4 Position Key switch

The 4 Position key switch can be used with the access switch for user ease.
Direct wired input is via the Control unit.

- Surface back box available.

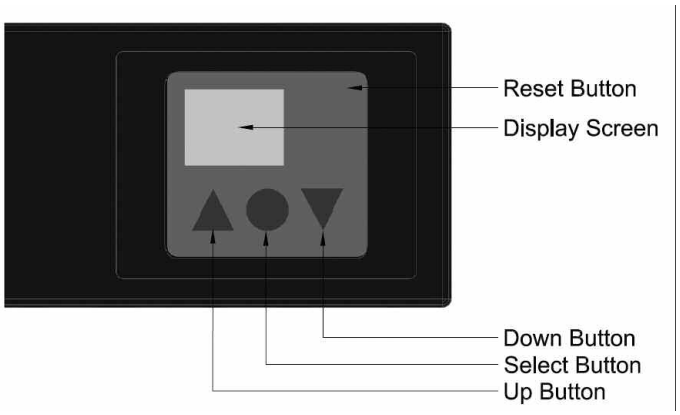


Attention should be paid to locating the switches where they can be operated without any risk to the user from the moving door leafs.

USING THE ACCESS PANEL - CUSTOMER

When the Access Switch is inactive it will automatically lock to stop unauthorised usage. To gain access to the Customer menu where you can change the mode of the door you simply hold the select button in for 2-3 seconds. The access switch will then display the mode you are in.

To change Mode, press the up or down until you get to your desired mode and press select.



RESET: Should your customer encounter any problems where the door may require a reset, they need to press and hold the select button whilst they press and release the hidden Reset button that is located in the top right hand corner of the grey membrane. Please hold the select button in until the door starts moving.

To Exit when in closed mode

To exit the building after the door has been changed into closed mode, Press the Up arrow and the down arrow together. This will activate the door open once to allow you to exit.

Errors

The Access panel has a complex self diagnostic System. There are two sets of error codes.
The first sets are customer indicator codes. These are problems with the door that can be resolved by the customer. These will be displayed on screen in YELLOW. I.e. if the emergency stop is pressed it will display on the screen to tell the customer to reset the button. Upon re-instating this, the door will continue as normal.

The second sets of Errors are engineer's codes. These are problems that require an engineer to fix. These will display on the screen in RED along with a message to contact an engineer. The screen will also display the Phone number that has been entered in the "Service Number" screen in the engineers mode.

Examples of these codes are shown below:

Errors the customer could possibly fix themselves:
- Fire alarm
- Mains failure

Errors that may require an engineer to attend:
- Battery failure
- Sensor fault

Quick Start

1. Fix Operators as per diagrams
2. Connect the arms to the door leaf/s in the closed position
3. Connect sensors and accessories
4. If you have a pair of doors connect the master / slave cable
5. Connect the Mains Power
6. Turn on the slave rocker switch followed by the master rocker switch (within 5 seconds)
7. Follow the on screen instructions
8. When complete – Check Installation complies with local regulations.

During the Learn Cycle the door will learn the open angle and also where the open face safety sensors see an obstruction that should be there. I.E. – a wall or Barrier.

The first activation will start with a "breaking distance" Learn. This is where the system learns the correct braking settings. After this has completed the door is ready to use.

CUSTOMER DOOR MODES

Automatic
This is the Main mode for customer use. Activation sensors or press pads work from both directions.

Exit only
Only the inner activation sensor works – Allows people to exit via the door.

Enter Only
Only the outer activation sensor works – Allows people to enter via the door.

Hold Open
When set to this function, the door will stand in the open position until the mode is changed.

Closed
The door will close and ignore all activations except the key impulse. The door will lock if switched on (Via engineer's mode)

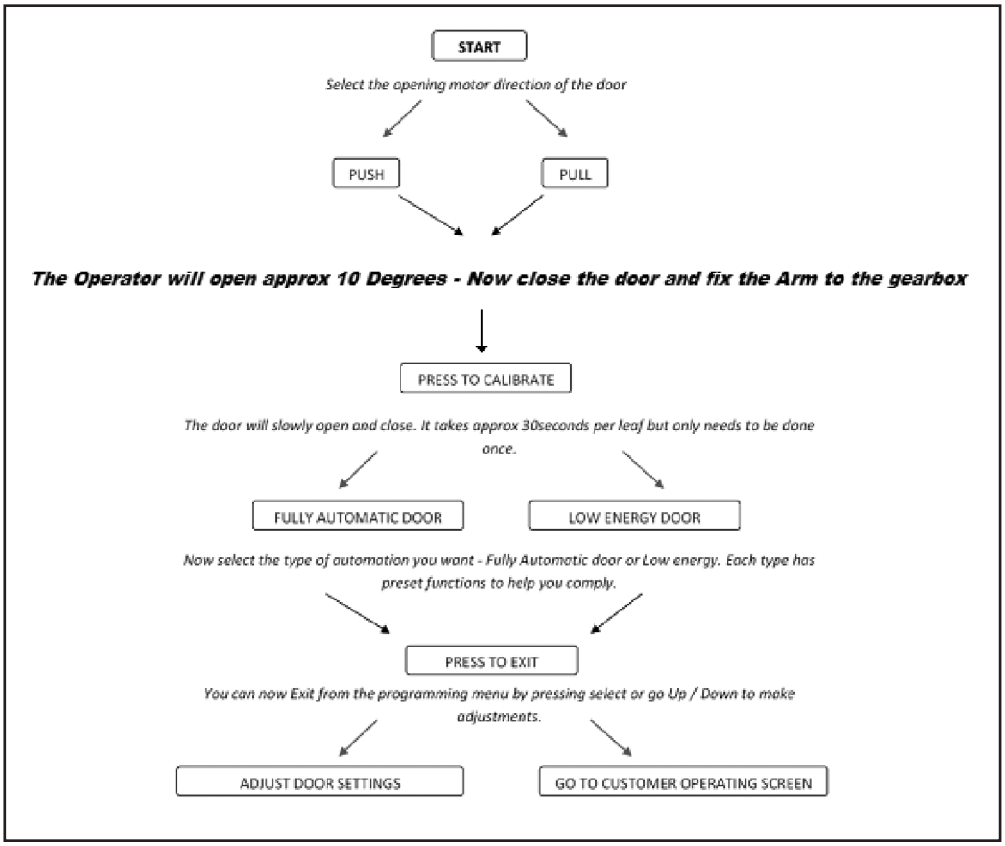
SPECIALS

Interlock
When installed in a "security lobby" setup, the door will use one of the above modes but will ignore any activations until its sister door is in the closed position and locked.

Connection is made from the interlock input terminals (39+40) to the Lock output on the sister doors control unit .

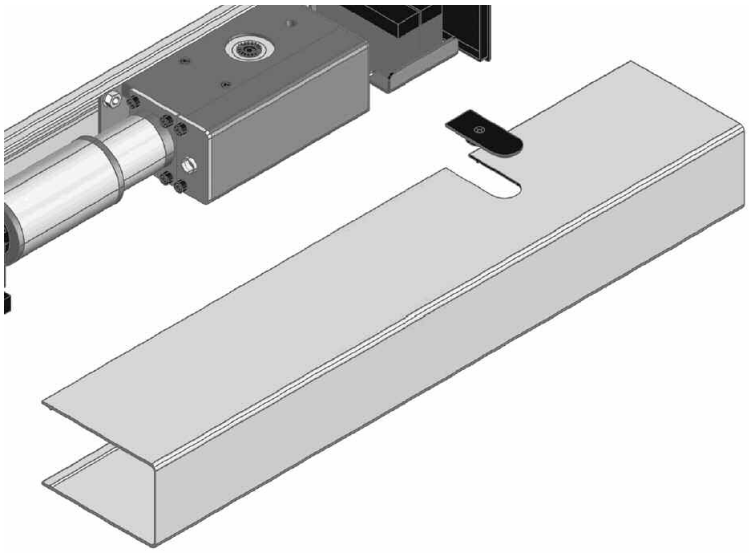
If Fitting a pair of operators, please switch the slave control unit on before the master (Within 5 Seconds)

Both LED lights should now be flashing amber.



LOW ENERGY	FULLY AUTOMATIC
Open Speed 1-3	Open speeds 1- 10
Close Speed 1-3	Close speeds 1- 5
Min Hold open Time - 5 Seconds	Hold open 0- 20 seconds
Closing obstructions detected	Closing - Door spring
No Safety Sensors	Active Safety sensors
Open / Close forces < 67 N	Open / Close forces < 150 N

When finished with your wiring you can now clip on the Aluminum cover and insert the full cap on the top of the unit and the half cap on the bottom using the M4 fixings provided.

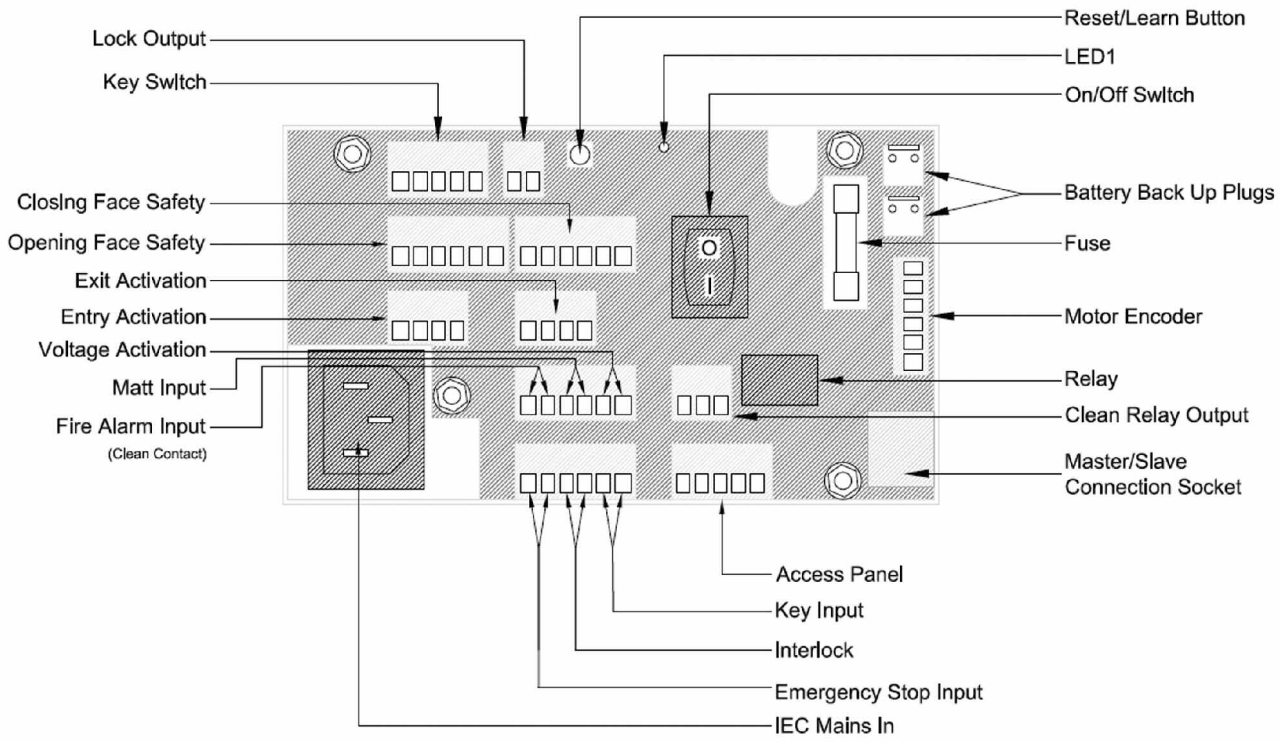


Access Panel – Technicians Mode (3x up, 3x down, select)

To gain Access to the Technicians mode, you need to press the up button three times and then the down button three times followed by select. This will take you to the first screen of the Technicians menu. From here you can navigate up or down through the menu as detailed below. To exit a sub menu press select on your desired choice and the access panel will take you to the next sub menu choice.

	Function	Option
1	Exit	
2	Opening speed	1 to 10
3	Closing speed	1 to 5
4	Door Hold open time	0 to 20
5	Key entry hold open time	0 to 20
6	Lock delay	0 to 5
7	Lock type	Fail safe / Fail secure
8	Lock when in Automatic	Enable / Disabled
9	Lock when in Closed	Enable / Disabled
10	Lock when in Exit Only	Enable / Disabled
11	Lock when in Entry Only	Enable / Disabled
12	Lock kick	1 to 10
13	Hold Close force	1 to 10
14	Emergency lock	Enable / Disabled
15	Rebate doors	Enable / Disabled
16	Morning entry	Master / Slave / Both
17	Power assistance Level	1 to 5
18	Push and go	Enable / Disabled
19	Battery monitoring	Enable / Disabled
20	Battery mode	Single open / Continuous
21	Fire Alarm state	N.O / N.C
22	Emergency stop state	N.O / N.C
23	Interlock	Enable / Disabled
24	Monitored safety	Enable / Disabled
25	Closing force detection	Reactivation / Continuous Close
26	Service Number	12 selectable digits
27	Asset description	12 selectable digits
28	Door info	INFORMATION
29	Controller info - Opening	INFORMATION
30	Time and date	Set time and date
31	Error log	last 20 Logs
32	Master reset	Full reset back to defaults

Control Unit Connections

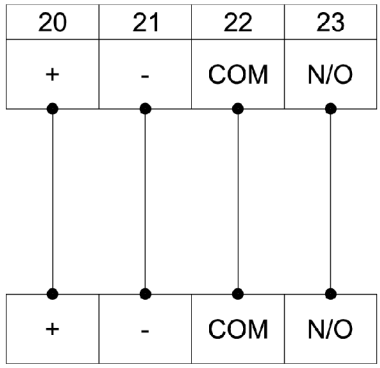


Each Device has a separate input for easy and simplicity.

Closing Face Safety – Normally Closed
Open Face Safety – Normally Closed
Exit Activation – Normally Open
Entry Activation – Normally Open
Voltage Activation – 12-28v
Fire Alarm – Selectable N.O / N.C
Emergency Stop – Selectable N.O / N.C
Key Input – Normally Open
Mat Input – Normally Open
Relay output – N.O / N.C / COM – Max 2amp
Master Slave Lead – RJ45 Network Cable
Key switch – 2, 3 or 4 positions – Auto / Closed/ Hold Open / One way
Reset – Hold until the light turns from green to amber / single press for a test activation.
Lock Output – 12 / 24v – max draw 1 Amp (current drop to 120ma after the lock engages)

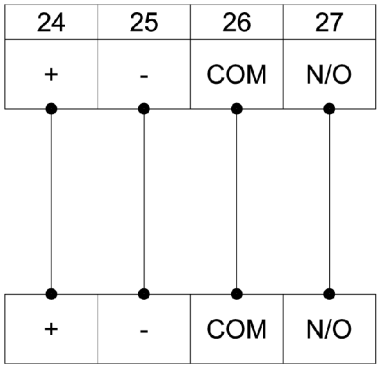
WIRING – Activations and Safety

ENTRY SENSOR ACTIVATION



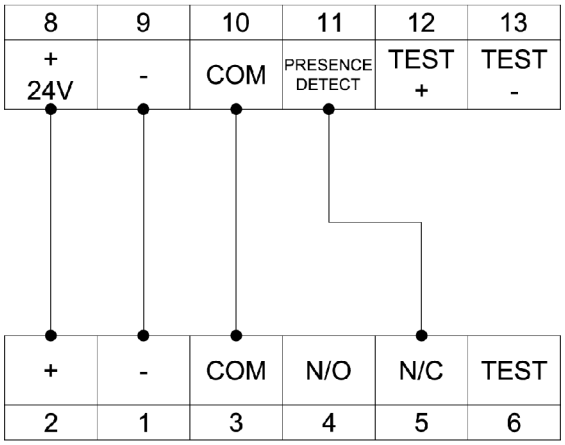
HR50

EXIT SENSOR ACTIVATION

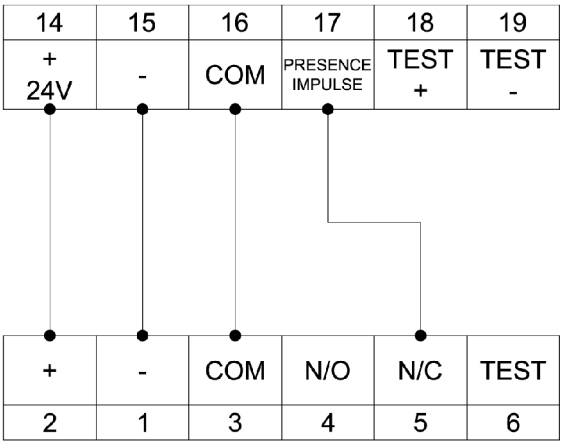


HR50

PREMIER SWING ONDOOR SAFETY (NOT MONITORED)

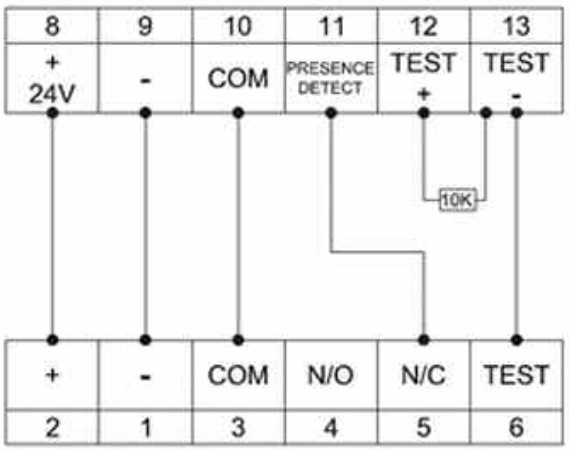


OPEN FACE SAFETY (TOPSCAN)

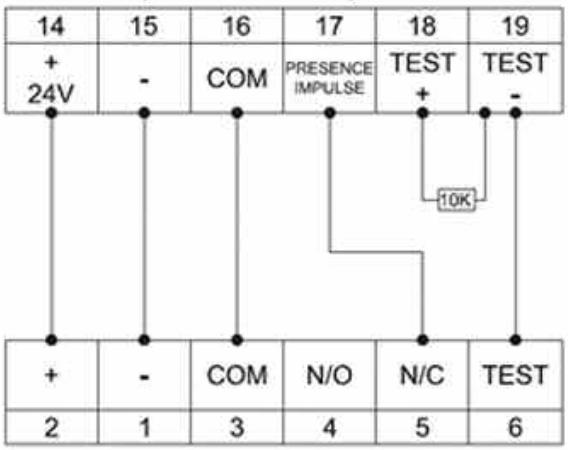


CLOSE FACE SAFETY (TOPSCAN)

PREMIER SWING ONDOOR SAFETY (MONITORED)



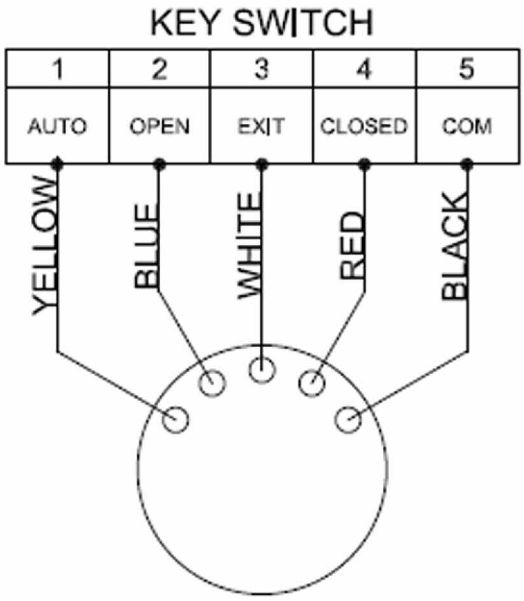
OPEN FACE SAFETY (TOPSCAN)

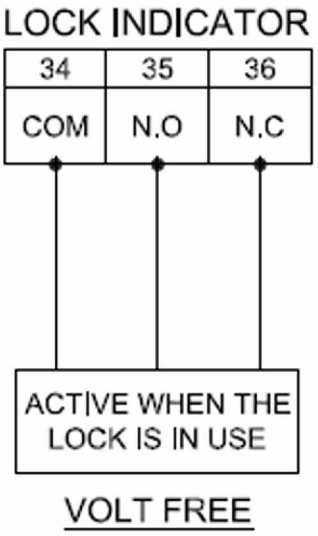


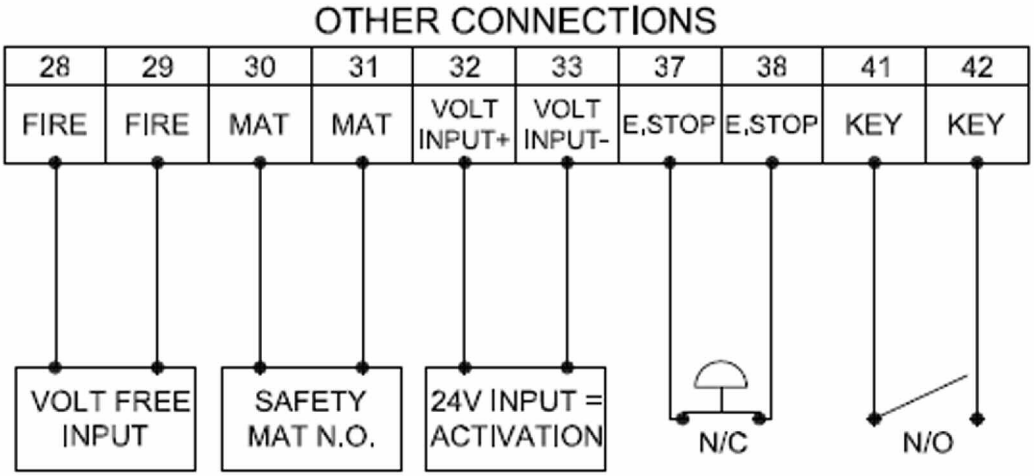
CLOSE FACE SAFETY (TOPSCAN)

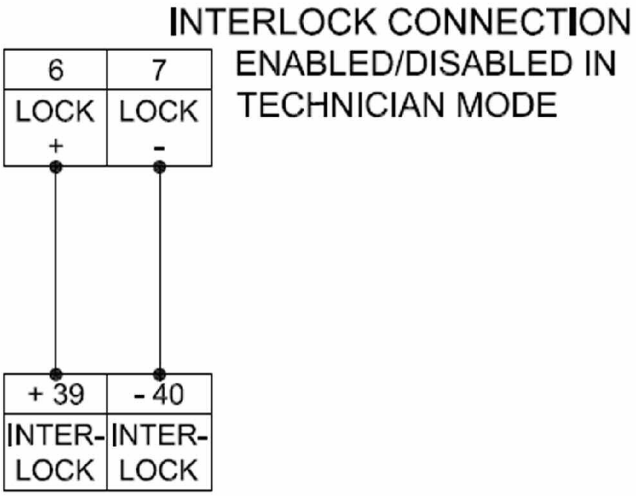
10K = 10K Resistor

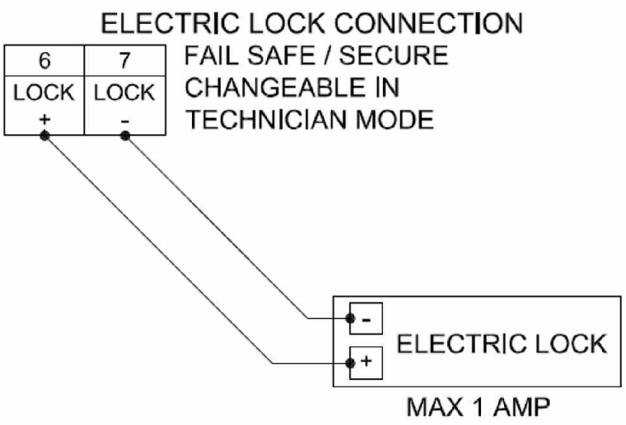
WIRING – Other Connections











Door Weight

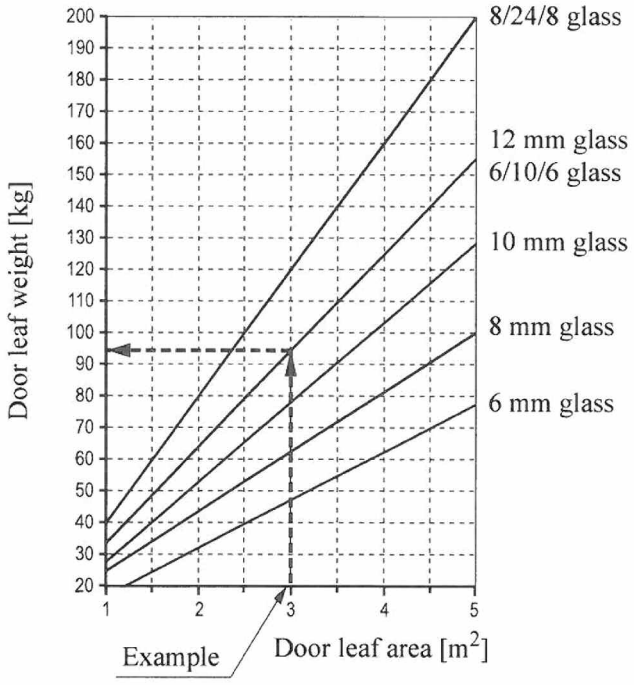
Below is an approximate Graph to help you calculate the door weight.

Please bear in mind that this table is for guidance only, it assumes that the door is made of typical 3mm wall aluminium without a midrail. Wooden, steel and other types of door should be assessed individually.

You will need to Times the Door Height by the Door width to get an overall area to use the table below.

I.E. 1.1mtr wide door x 2.2m High door = 2.42 Overall area (meters)
On our Example a 2.42 area door with 6.4mm Laminated glass would be approximately 44Kg in Weight.

Please use this table for Guidance only, for an exact door weight you will have to weigh the individual Doors.



Below is Guidance for you to adjust the door speeds to Comply with BS7036:1996

Speed settings

The table shows minimum opening time to back check or to 80° open or minimum closing time from 90° to 10° open.

Width of door leaf (mm)	Door mass (kg)				
	50	60	70	80	90
	Time (s) min				
750	3,0	3,2	3,2	3,3	3,5
850	3,1	3,1	3,2	3,4	3,6
1000	3,2	3,4	3,7	4,0	4,2
1200	3,8	4,2	4,5	4,8	5,1

Fault Finding

Fault Finding is made easy on the Premier-swing as it has a comprehensive diagnostic system. For all major faults the door will display an error on the screen. For sensors it will say “Sensor Failure”.
You can then enter the technician’s mode and identify the exact sensor in the Fault Log or Information screen.

FAULTS WILL APPEAR AS BELOW FOR MASTER DOORS AND WITH S) IN FRONT OF THE FAULT FOR SLAVE DOOR ERRORS.

SENSOR ACTIVE CONSTANTLY	Activation Constant > 10 minutes
KEY SENSOR FAILURE	If the Key Input is constantly active > 10 minutes
FIRE ALARM	if the Fire alarm is activated
EMERGENCY STOP	If the Emergency stop is activated
MAINS FAILURE	If the Power is switched off or the Mains fuse is faulty
BATTERY LOW	If the batteries or Battery fuse is faulty
SHORT CIRCUIT	If you wire the Sensor Power in the wrong contact
CANT FIND HOME	cannot find its home start position within 70mm
NO COMMUNICATION	If the Access panel is wired wrong or Faulty C/U

Flashing Lights on control Unit

Amber
Solid Amber means factory reset, needs communication with either Master controller or Access panel
1 Amber Flash means needs calibration
3 Amber Flashes = Open Calibration

Green
3 Green Flashes = Close Calibration
1 Green Flash = All OK

Red
1 Red Flash means controller is in Alarm Condition - See access switch
2 Red Flashes is Alarm Condition before learn cycle
3 Red Flashes is Alarm Condition during learn cycle
4 Red Flashes is Learn cycle failed
5 Red Flashes is Low voltage to CPU / PSU Overload

Faulty Table Help

WHAT IS THE ERROR CODE	WHAT TO DO NEXT	POSSIBLE SOLUTIONS
ACTIVATION ERROR	Check the Door information screen to see which activation is on	Look for a loose connection Disconnect the offending activation and test the rest of the door
MAT ERROR	Check the Door information screen to see which activation is on	Look for a loose connection Disconnect the offending activation and test the rest of the door
KEY ERROR	Check the Door information screen to confirm it is the Key	Look for a loose connection Check the Momentary Key switch is not Stuck/ jammed Disconnect the offending activation and test the rest of the door
FIRE ALARM ERROR	Check the Door information screen to confirm it is the Fire Alarm Check if the Fire alarm panel has a fault-	Look for a loose connection If the Fire alarm is not at fault - Disconnect from Fire input - Change to N.O & test the rest of the door
EMERGENCY STOP ERROR	Check if an emergency stop or Breakout contact has been activated	Disconnect the Device from the Control unit and Pop in a Link wire. Test Check the Stop button/ breakout contact for damage/faults
MAINS FAILURE	Check the Door information screen to confirm there is no Mains voltage	Check the Main fuse Check the control unit has not been switched off Check the ICE Connector is securely plugged in Check the Mains Spur has power
BATTERY ERROR	Check the Door information screen to confirm there is no Battery voltage	Check the Battery fuse check the control unit has not been switched off Check the batteries are securely plugged in Turn the Battery Monitoring to off - Check the door again
SHORT CIRCUIT	Check the Door information screen to see which activation is faulting	Check Wiring of Sensors against the Manual Wire one sensor in at a time and check.
EMERGENCY STOP ERROR	Check that all the Stop Buttons are not active	Look for a loose connection If the Stop button is not at fault - Disconnect from Emergency input - Change to N.O & test the rest of the door
COMMUNICATION ERROR	Try the Reset Button on the Access Panel	Look for a loose / Wrong connection Check all the Fuses check the control unit has not been switched off Check the ICE Connector is securely plugged in Check the Mains Spur has power

WHAT IS THE FAULT	POSSIBLE REASON	SOLUTIONS
THE DOOR IS STANDING OPEN	THERE MAY BE A LOOSE CONNECTION	CHECK ALL THE PLUG ARE CORRECTLY FITTED IN THE CONTROL UNIT.
	POWER MAY HAVE BEEN CUT - Defaulting the door to stand open	CHECK THE CONTROL UNIT FUSE, MAINS SUPPLY AND THE ERROR LOG
	THE SENSORS MAY BE WIRED INTO THE WRONG TYPE OF CIRCUIT	CHECK FOR CORRECT NORMALLY OPEN OR NORMALLY CLOSED CONNECTION
	THE DOORS MAY BE BINDING	CHECK THE DOORS SWING FREELY AND THERE IS NO FOR DEBRIS UNDER THE DOOR
	AN ACTIVATION DEVICE MIGHT BE CONSTANTLY ACTIVATING	CHECK FOR THE ACTIVATION ON THE DOOR INFORMATION SCREEN
THE DOOR ONLY OPENS PART WAY	THE DOORS MAY BE BINDING	CHECK THE DOORS SWING FREELY AND THERE IS NO FOR DEBRIS UNDER THE DOOR TRY INCREASING THE OPENING AUTO REVERSE FORCE CHECK FOR THE OPEN OBSTRUCTION ON THE DOOR INFORMATION SCREEN
	THE OPEN FACE SAFETY MAY BE SEEMING SOMETHING - I.E A WALL OR BARRIER	CHECK FOR THE OPEN SAFETY ON THE DOOR INFORMATION SCREEN ADJUST THE OPEN FACE SAFETY RE-SET THE DOOR WHICH WILL RE-LEARN THE SAFETY CUT OFF POSITION
THE DOOR WON'T WORK AT ALL	THE POWER MAY BE OFF	CHECK THE MAINS HAS NOT BEEN INTERRUPTED AT THE SPUR
	THERE MAY BE A LOOSE CONNECTION	CHECK ALL THE PLUG ARE CORRECTLY FITTED IN THE CONTROL UNIT CHECK THE CONNECTIONS OF ALL SENSORS ETC ARE IN THE CONNECTION UNIT
	THE SPEEDS MAY NEED ADJUSTING	CHECK THAT THE SPEEDS ARE NOT SET UP TOO HIGH, THIS CAN CAUSE OBSTRUCTION ERRORS CHECK THE DOOR IS IN THE CORRECT FUNCTION CHECK THE DOORS SWING FREELY AND THERE IS NO FOR DEBRIS UNDER THE DOOR
	THE FUSE MAY HAVE BLOWN	CHECK BOTH THE CONTROL UNIT AND CONNECTION UNIT FUSES
	EMERGENCY STOP MAY BE ON	CHECK FOR CORRECT STATE - NORMALLY OPEN / NORMALLY CLOSED CHECK THAT THE STOP BUTTON IS NOT ACTIVE
	DOOR MAY BE IN INTERLOCK " IDLE"	TURN OFF INTERLOCK FUNCTION
THE MODE SWITCH HAS NO OPERATION	THE MODE WIRE MAY BE SNAGGED	LOOK FOR SNAGS/ BREAKS IN THE WIRE FROM MODE SWITCH TO CONTROL PANEL.
	THERE MAY BE A LOOSE CONNECTION	CHECK THE MODE SWITCH PLUG IS CORRECTLY IN THE CONTROL UNIT CHECK THE PLUGS IN THE BACK ARE IN CORRECTLY- AND ALL WIRES HAVE GOOD CONTACT
THE DOOR WILL NOT LEARN	MASTER WONT LEARN	CHECK THAT YOUR SAFETY LINKS ARE IN OR YOUR SAFETY SENSORS ARE WIRED N.C CHECK THAT YOUR EMERGENCY STOP PLUG/ LINK IS IN TURN OFF AT THE ROCKER SWITCH AND TRY AGAIN CHECK THE ARM POSITION - SHOULD NOT HAVE ANY PRE-TENSION
	SLAVE WONT LEARN	TURN OFF AT BOTH ROCKER SWITHCES- TURN THE SLAVE ON FIRST CHECK THAT YOUR SAFETY LINKS ARE IN OR YOUR SAFETY SENSORS ARE WIRED N.C CHECK THE ARM POSITION - SHOULD NOT HAVE ANY PRE-TENSION CHECK THAT YOUR EMERGENCY STOP PLUG/ LINK IS IN
THE DOOR WILL NOT CLOSE	BINDING ON PULL ARM	CHECK LEVEL FITTING AND TOLERANCE ON ARM HEIGHT
	BINDING OF DOOR LEAF	CHECK FOR CLEARANCE ALL ROUND THE DOOR CHECK THE DOOR IS FREE SWINGING

Technical Specification

Min Door Width	700mm
Max Door Width	1200mm
Max Door Height	2500mm
Max Door Weight	200 kgs
Unit Weight	14Kg
Max opening angle	110 Degrees
Mains Voltage	80v - 250 v ac 50 Hz
Hold Open time	0 – 60 Sec
Opening Speed	3 – 6 Seconds
Closing Speed	3 – 6 Seconds
Aux Power Supply	24v dc - 2000 mA
Ambient Temp	- 20 to +45
Protection Class	IP 20

Warranty

The Company warrants to the authorised distributor that all products will be free from defects in materials and construction under normal use and for its intended purpose. The Company obligation is limited to repairing or replacing components from its Factory within the 18 month period from purchase. The Batteries are only warranted for a 12 month period. The warranty does not cover misuse, accidental damage or negligence.

There is no warranty or guarantee of fitness for a particular installation as each are bespoke to user and site conditions. The Company does not authorise any distributor to offer any other warranty to any user on behalf of the Manufacturer.

The Company shall not be liable in any event for special or subsequent damages from the buyer or third parties against the buyer. Unauthorised modifications to the operator exclude the manufacturer from any warranty or resulting damage or liability.