

Technical Installation Manual

Premier-Slide 100[©]



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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-Slide 100

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 : 01/04/2011

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 DISCONNECTED FROM THE MAINS AT NIGHT!

Introduction

This Manual contains all the information you require to install, maintain and service your Premier-slide 100 automatic sliding door operator.

The Premier-Slide 100 automatic sliding door system has been designed to create a reliable sliding 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.

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 identified 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-slide 100 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 independantly.

Main Features:

Personalised Colour Logo

Self diagnostic system

Only 100mm in Height

Full microprocessor control with smooth motor control using encoder technology.

Easy to adjust wheel systems.

“Creep Speed” input.

Electromagnetic motor lock as standard

Fast Installation – minimal tools required.

Monitored battery backup with optional opening Programs

Switch-able Motor direction

Slim-line mode switch: available in Surface, flush fit and canopy mounting options.

Interlock – for security lobby systems

Monitored safety sensor inputs

Dedicated plugs for each sensor

Easy adjustments via the Access Panel

CUSTOMER MODES

Automatic

Exit Only

Enter Only

Hold Open

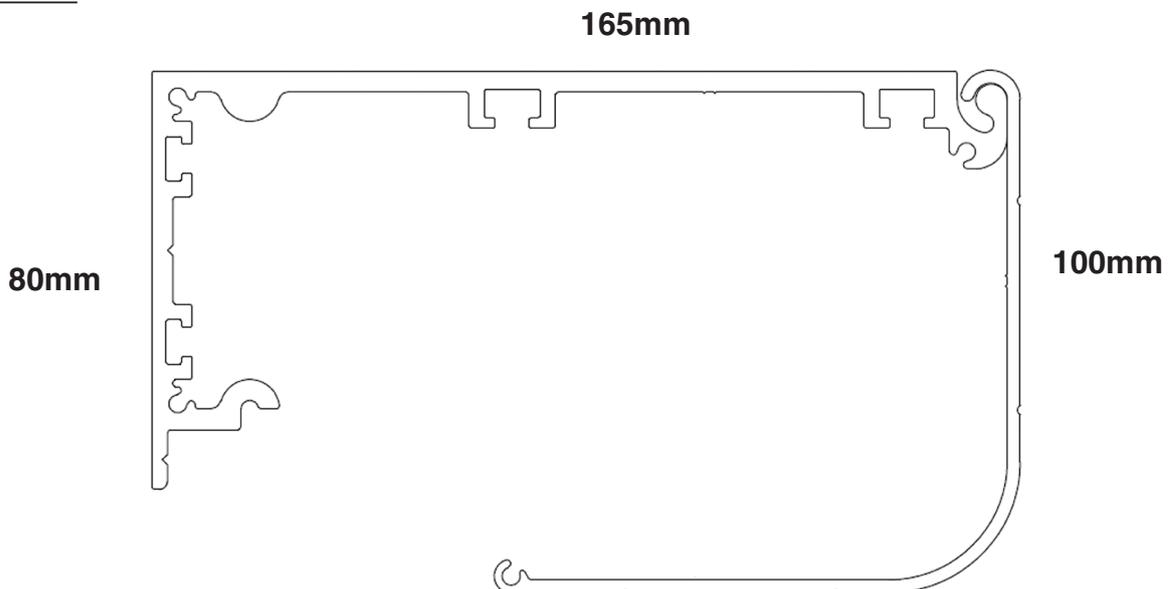
Partial Opening

Closed

Pharmacy Mode

Auto Width

Extrusion



Preparation of doors

The door operator kit is supplied with an aluminium adaptor rail which needs to be fitted in the top to the door leaf. This adaptor allows the “door hanging brackets” to be easily attached to the door leaf. This should be cut the full internal width of the door leaves.

Sufficient fixings / re-enforcement must be installed to carry the weight of the door leaf.
Max distance between fixings = 100mm

If a new door leaf is to be supplied, then suitable re-enforcement should be added during manufacture. We recommend a minimum thickness of 5mm aluminium bar. This should be installed inside the top door rail. (see Fig 1/2)

If the unit is to be fitted to an existing door (see Fig 2), then a suitable fixing such as a “threaded insert” should be used. The top of the door rail will need to be in-filled with a suitable material and the adaptor rail would need to be finished the same as the door leaves.

Never rely on just tapped threads in an aluminium door.

The adaptor can be fitted into the top door rail if space allows or it can be fitted flush on the top (using suitable packing if required).

If the adaptor rail is being fitted into the top of the door rail, then remember to insert the steel threaded plates into the adaptor rail before it is fitted to the door.
It requires 4 x fixing plates per door leaf.

Fig 1

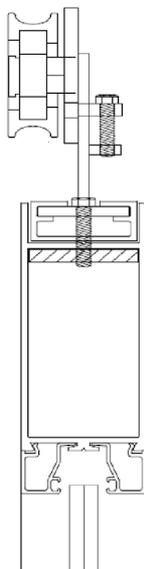
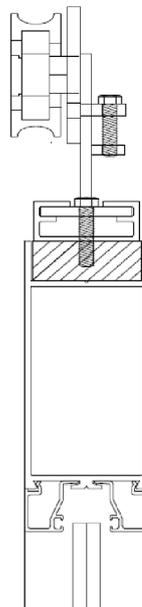


Fig 2



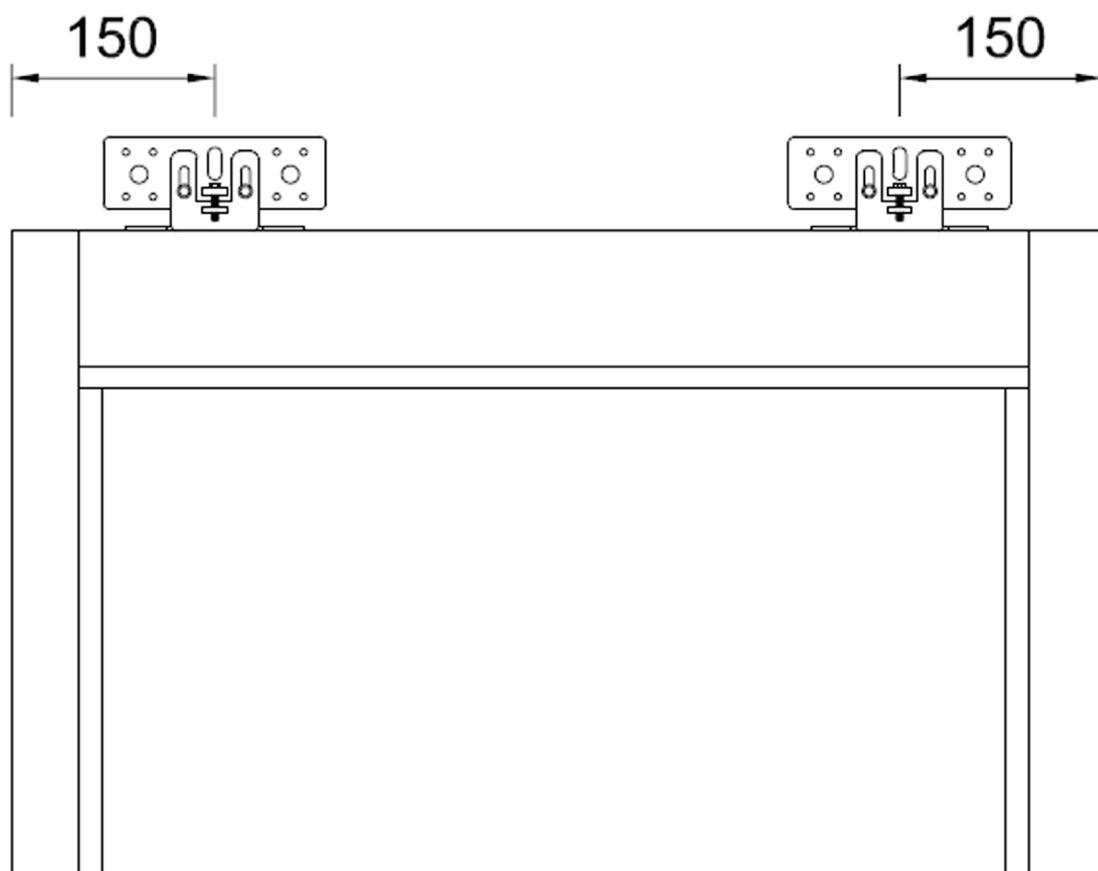
Once the adaptor rail has been installed on the door leaf, then the “Door Hanging” brackets can be fitted to the adaptor, using the M8 bolts fitted to the steel threaded fixing plates.

The door hanging brackets have slots to allow the door distance from the frame, to be adjusted as necessary.

Position the hanger brackets so that the centre of the bracket is approx 150mm from the edge of the door.

Once the door is suitably located and adjusted, ensure all M8 bolts are fully tightened.

For Door leaves wider than 1150mm we would supply an additional Carriage assembly per leaf to spread the weight of the doors.



Installation of Track System

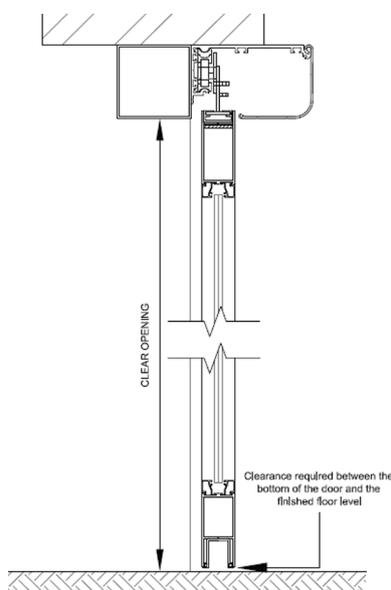
- *Always work in pairs.*

- The track system comprises an aluminium track section and a hinged / removable cover. *(Please note: Sometimes there can be a slight bend to the length of long track extrusion but this is easily removed by fixing from one end and straightening it up as you go). Being made from aluminium the track has a certain amount of flexibility.*
- 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*

- Align the header on the fitting section 20mm up from clear opening height and level. Mark through one of the bottom fitting holes at each end. Remove the header, drill tap and fix the unit.
- Attention should be paid to what fixings are used when fitting in the area the wheels roll past. Take into consideration wire runs from sensors and Mains spurs.
- Keep the inside of the track where the wheels run free from dirt and drilling swarf.
- Allow a minimum of 330mm from the frame outward, for the canopy to be raised for repairs and maintenance.



TRACK INSTALLATION HEIGHT

(Flush Adaptor) = Door Leaf + Bottom Gap + 6mm

(Surface Mounted) = Door Leaf + Bottom Gap + 22mm

DOOR HEIGHT CALCULATIONS

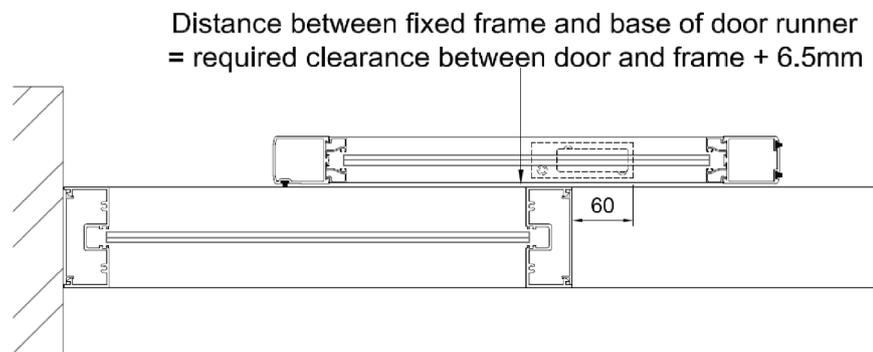
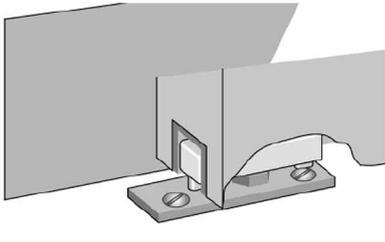
(Flush fitted Adaptor Rail) = Clear Opening height - Bottom Gap + 15mm

Surface Mounted Adaptor Rail) = Clear Opening height - Bottom

Installation of Floor Guides

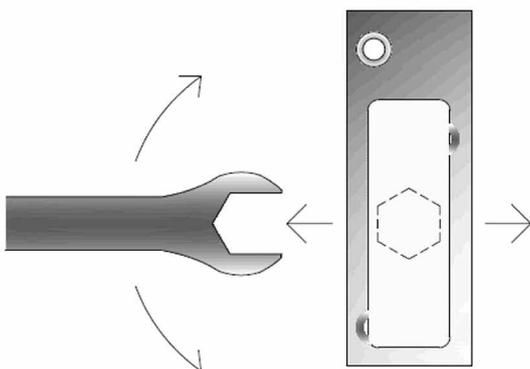
The standard floor guide system available with the Premier-Slide uses a guide track installed into the bottom of the door rail and a floor mounted adjustable guide.

The guide channel is simply cut to the inside dimension of the door leaf and attached using countersunk self tapping screws straight into the door rail. The rear of the door can be notched out to allow the guide block to slide in if required.



The floor mounted guide block assembly is simply drilled into the floor and secured with countersunk screws and rawl plugs. The guide should be positioned so that the side of the floor guide nearest the frame is positioned as follows:

Required clearance gap + 6.5mm from framework and the front of the guide should be approx 60mm into the opening (see diagram above)) the guide itself is adjustable for sideways movement +/- 4mm



Simply insert a slim 19mm spanner beneath the nylon block and turn either clockwise or anticlockwise. As the shaft of the guide is eccentric, the guide will move closer to

Hanging & Aligning Doors

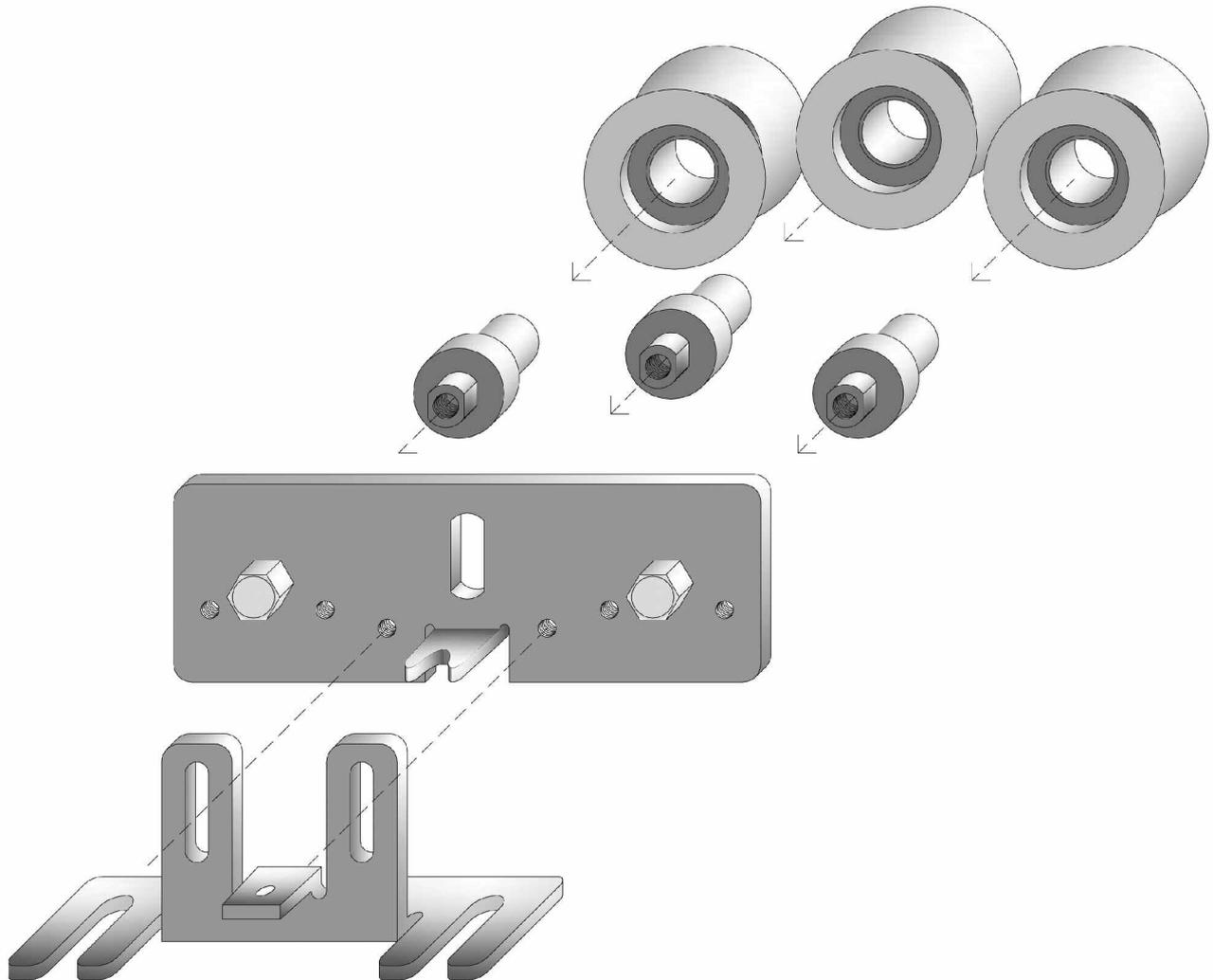
Procedure for wheel adjustment:

When the Doors are hung, you need to adjust the anti-riser (Centre Wheel) up so that it touches the top of the track. This is to stop the doors from coming off of their track. Please do not have these tight against the track as they may cause friction problems.

When adjusted properly you should be able to manually push each leaf with minimum effort and no friction.

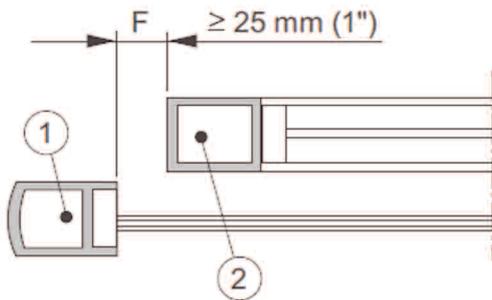
To Adjust the doors up and down, loosen the two M6 Bolts. Now you can turn the M5 adjustment bolt Counter Clockwise to bring the doors up or clockwise to lower them. When the doors are at the correct height simply tighten the two M6 Bolts to secure the hanging bracket to the assembly.

This assembly gives you approx 7mm of adjustment in each direction from the centre point.



Aligning the doors

Loosen the Door stops. Push the doors to the required maximum open position.



Please remember that there must be a minimum of 25mm between the leading edge of the door (1) and the mullion of the fixed screen to avoid a finger trap. (2)

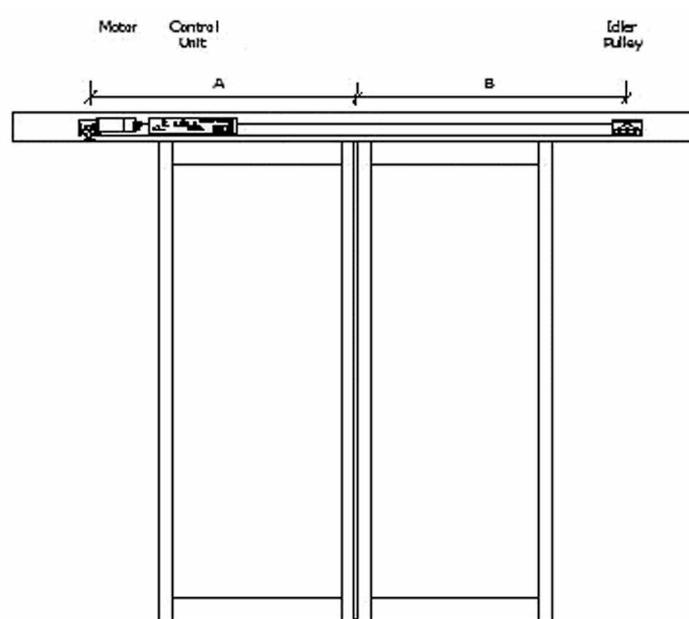
When In the required opening position, tighten the door stops so they touch the wheels when the door is in the required position.

Installation of Equipment

Position the motor/gearbox unit to the left hand side 5 mm from the end and the idler pulley assembly to the right hand side so that the centre of the pulley wheel on each align

Install new control unit to the right hand side of the motor within distance of motor wiring loom and connect motor to the left hand side socket connector.

Please Note: You can move the idler wheel inward to suit your operator to reduce belt sag if required.

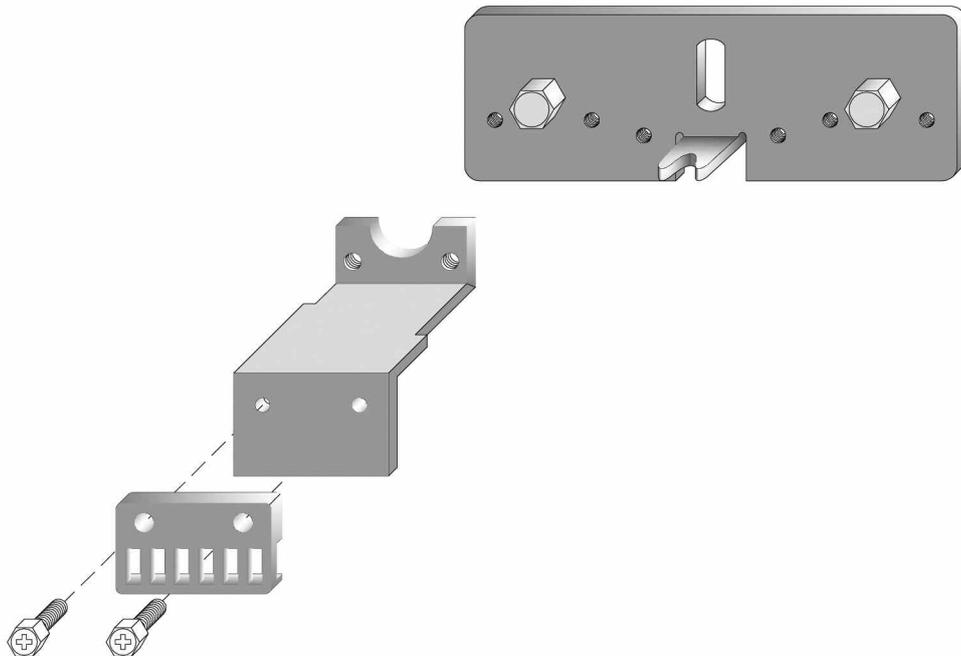


The Premier-Slide Compact uses a system of captive nuts that slide in the extrusion to secure the equipment into the operator. This makes installing the equipment very quick and easy

Belt

The Belt should be installed with the door in the closed position. Making sure the doors do not move; wrap the belt around the motor and Idler wheel. Measure and cut as required. The belt should now be clamped to the carriage assemblies and tensioned to allow the door to work properly.

The Belt bracket is secured to the carriage assemblies via 2 x Bolts. The belt ends are then pressed into the belt clamp and securely fastened to the belt clamp via the centre bolt. For Bi-parting doors there will be one longer and one smaller belt bracket.

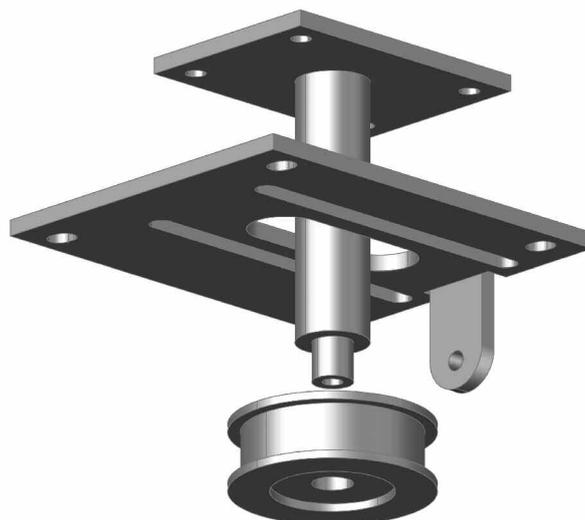


Idler Wheel Adjustment

The idler pulley assembly installs like the rest of the equipment into the right hand side of the operator.

The belt tension should then be adjusted by loosening the 4 x holding bolts around the shaft on the idler pulley assembly and then use the adjuster bolt, (turning clockwise to tighten) to adjust the belt tension. Use the locking nut on the adjuster to secure in place and tighten the holding bolts.

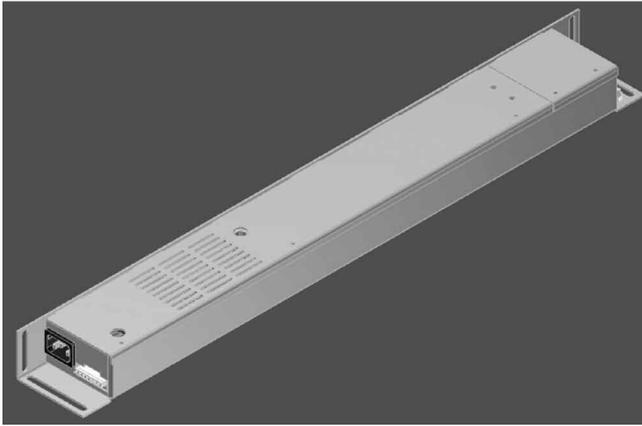
The belt should be adjusted fairly tight with no sagging of the belt or it may slip teeth causing the operator to lose its positions. Approx Torque of 1.1Nm



Control Unit

The Premier-slide 100 Control unit is an “all in one” control system incorporating A Control system, Power supply unit, monitored battery backup and dedicated wiring system.

The Mains Power is supplied via an IEC “Kettle” Plug in the L/H side of the Control Unit. Next to this on the L/H Side this is the motor connection plug.



To the R/H side is a removable lid where most wiring connections are made.

There is a test button located next to the sensor connectors under the removable lid. A single press will work as an activation for when you are adjusting door speeds.

If you hold it for 5 seconds the red LED stops flashing and lights up constantly. By doing this you can instigate a factory reset.

Please Note: During a factory reset, all your previous adjustments and settings will be deleted and returned to the default values.

The following connections as listed below are normally open:

Inner sensor, Outer sensor, Key Input

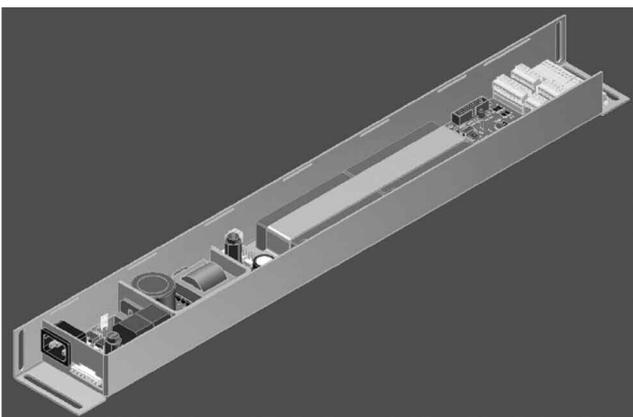
The following connections as listed below are normally closed:

Inner Threshold Safety, Outer Threshold Safety, L/H Side screen safety, R/H Side screen safety, Emergency Stop

Battery Backup

Our battery Backup system uses two x 12v 0.8ah sealed lead acid Type batteries. These are held firmly in place by the battery strap and have dedicated plugs on the Right hand side of the PSU. Please remember to isolate the mains via the Kettle plug before removing or connecting the Batteries.

Our Battery backup system provides a constant variable charge when the door is not in operation depending on the condition of the batteries. I.e. If the batteries are new, our system uses a “trickle charge”, for older batteries it assesses the require voltage and charges accordingly.



The Batteries are constantly monitored to confirm that they have enough power in them to carry out their emergency power failure procedure.

Access Switch

The Access Switch comes with 5 Meters 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.

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 chamber of the frame section.

Flush Fitting Switch



This switch has been designed to fit flush for Installation in hollow Aluminium frame sections and Hollow walls. You will need to cutout/remove part of the Section wall and drill 4 x fixing holes in accordance with the Sizes given in the Instructions supplied with this type of Switch.

Canopy Mounted Switch



This switch has been designed to fit flush for Installation in the Canopy of the operator. Careful consideration should be paid to the Location of this so it does not affect any internal workings of the operator. You will need to cutout/ remove part of the canopy Section and drill 4 x fixing holes in accordance with the Sizes given in the Instructions supplied with this type of Switch.

4 Position Key switch



The 4 Position key switch can be used with the access switch for user ease. Wires Direct onto Control Unit.

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

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.

Partial Opening

This function will act the same as the Automatic but will only partially open. (*) This is normally used for larger doors during winter months to help retain the buildings heat.

Closed

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

Pharmacy Mode

When selected, the door will open to the desired position (*) and Lock. When you change it back to closed, the door will close and lock - if switched on (*) This Function is commonly used for late night deliveries as a security feature.

Auto Width

When the sensor is activated the door will open to a partial position, If the sensor is reactivated (someone else walks up to the door) within a certain time (*) the door will then open to its full position.

The door will carry on opening to its full position until the door has not been activated for a certain time. (*)

(*) = Adjustable in engineers Mode

SPECIALS

Interlock

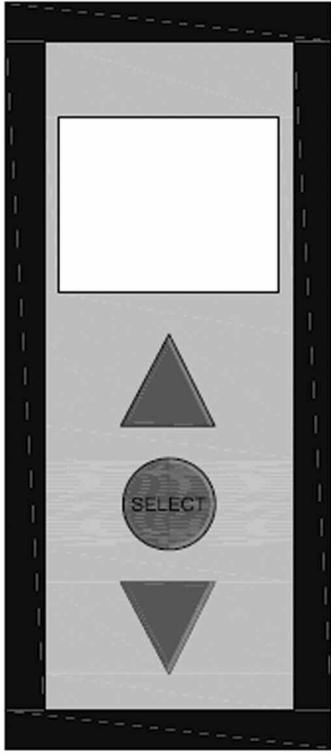
When installed in a "security lobby" setup, the door will use one of the above modes but will ignore any activations until its sister door is in the closed position and locked.

Connection is made from the Interlock Input terminals (35+36) to the Aux Lock output on the sister doors control unit .

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 bottom right Hand corner of the Grey membrane. Please hold the select button in until the door starts moving.

(Please Note: If you have fitted the “Canopy” Switch then the reset is in the Top Right Hand corner.)

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

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

DOOR START UP PROCEDURE



During the Learn Cycle , the safety sensors are not used. It is therefore important not to initiate this cycle untill you have confirmed no presons or objects are in the Danger area of the doors movement in order to avoid accidents or damage.

When the doors are hung, the sensors fitted and wired you can now start the door up. The door has a learn cycle it goes through. With the mains on,

- Turn on the Conrol unit.

Please make sure the Area the door opens/closes and the sensor fields are clear from people and objects as they may affect the learn cycle.

- The Access switch will ask you to confirm if it is a single or double sliding door system.

After this has been confirmed press ok to start the configuration.

When this is complete the door should start to open (If it closes, you will need to change the door direction – in Engineers mode after the learn cycle).

When the door is full open, it will pause whilst it checks if the threshold safety sensors are connected properly and if they are the monitored type.

The door will then close and pause for a second whilst it checks if the side screen safety sensors are connected properly and if they are the monitored type.

The door will start in the Technicians mode.

The door is now ready for you to make the final adjustments to suit site conditions and the BS7036:1996.

If a Contact requires changing to allow the door to work (I.e Fire alarm – N.C , Change to N.O) the door will sit open and display the fault on the operating mode screen. Enter the Technicians mode and change accordingly.

If a sensor is wired wrong, seeing the door or there is an obstruction error the door will state “Learn Cycle failed” and display the error. Correct the error accordingly by manually adjusting sensors/doors or adjusting via the engineers mode (3 x up arrow then 3 x down then Select).

Hold Select and press the hidden reset and the doors will go into a new learn cycle, repeat untill the Door is free from errors and is ready to use.

During the Learn cycle the operator weighs the door and starts it in one of nine preset speed groups. This should be approx correct for the weight of door. Please use the Individual screens in the Technicians menu to make final adjustments.

You can now fine tune and adjust your door system in one of our Programming menus.

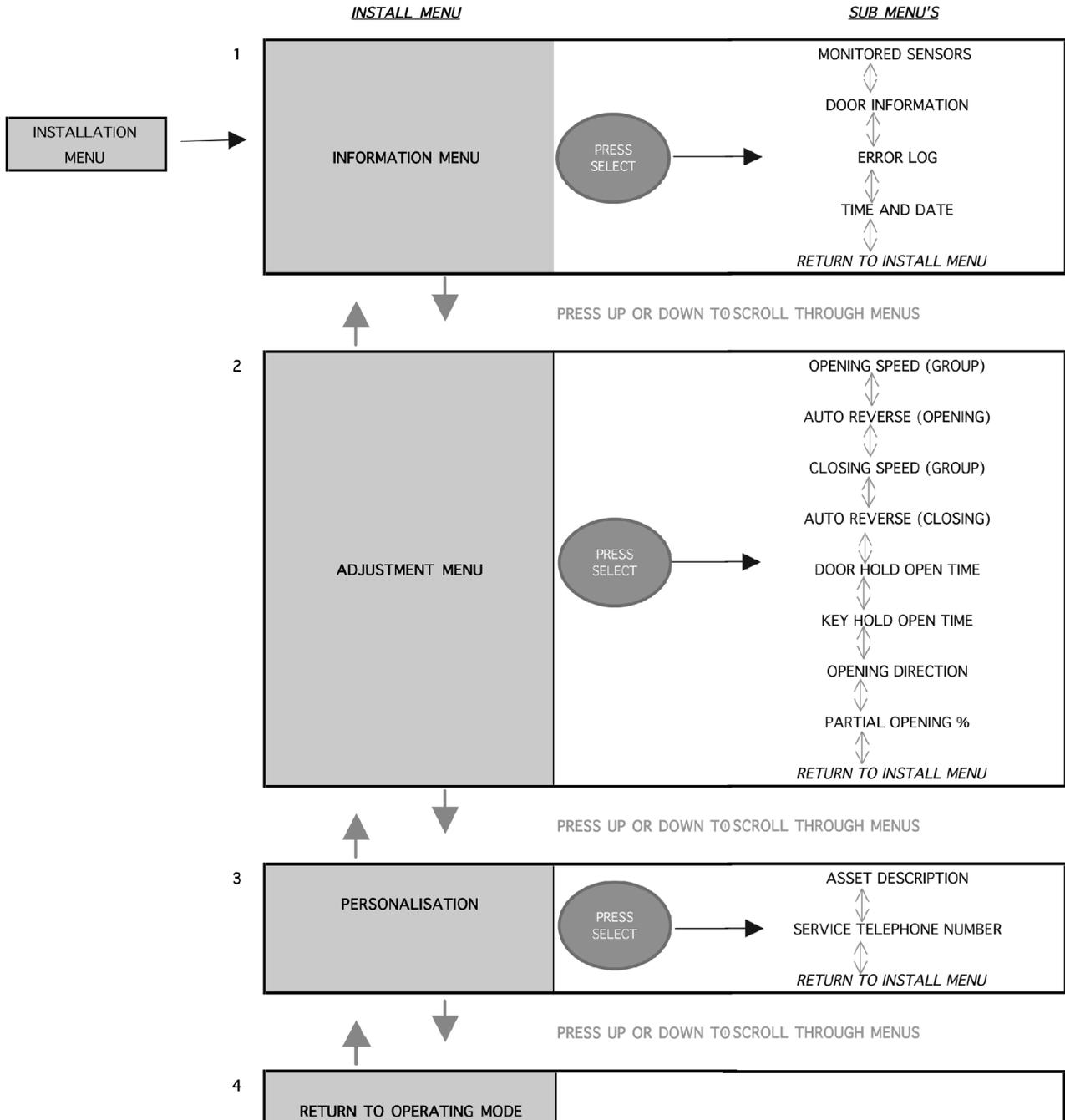
When the door is all setup and running as desired, remember to enter the Time and Date for the error logs.

Access Panel – Installer Setup Mode (2x Down, 2x Up, Select)

To gain Access to the installer’s mode, you need to press the down button twice, then the up button twice and press select.

This will take you to the first screen of the Installers menu. From here you can navigate up or down through the Menu as detailed below. To exit a sub menu press scroll down to the Exit screen (In Yellow)

PLEASE USE THE UP AND DOWN ARROWS TO NAVIGATE THE MENU. PRESS SELECT TO ENTER THE SUB MENU'S.



INSTALLERS MENU EXPLANATION

Monitored Safety

On This screen you can see the Safety sensors of your doors. This serves two purposes.

- 1) If the Writing is green it means that your sensors are not active. If any are in Red, this indicates that the particular Safety sensor is receiving any activation.
- 2) This screen shows you if your sensors are monitored or not. If you fit a monitored sensor, that particular one will say “YES” next to it

Door Information

This screen shows you the PSU Voltage and the battery voltage.

This screen also shows you the last thing to happen to the door (Last = L>) and if anything is currently happening to the door (Current = C>)

The bottom line of the screen will show you any alarms currently active on the control unit.

Example:

SIDE SCREEN L/H – NO = Left hand side screen sensor is not a monitored sensor but it is being activated, Check for Objects in the sensor field and check the sensor is not adjust so it is seeing the door

Error Log

The Control Unit will Log the last 20 faults with the door – saving the time and date

There is also an option to delete the log and start again.

Set Time and Date

This screen is to set the time and date use in the Error logs. Scroll up or down to select the digit required and press select. (Please note: this control unit uses a 24 Hour time format)

Opening speed (Group) 1 – 9

1-5 - Single door settings

6-9 – Double door settings

The Speed Group combines the high speed, Braking force, Braking Distance, Low Speed and Safety speed into one convenient group.

These groups have been assembled to allow a smooth operation of the sliding door. Group Number 5 Is the fastest for a single door and Group number 1 is the slowest. Upon Start up of your Premier-slide operator, it will weigh the doors and select an appropriate group so that the speeds and forces are as close to the British standard as possible.

PLEASE BE AWARE THAT WE CANNOT GUARANTEE THIS AND IT IS THE CERTIFIED ENGINEERS JOB TO TEST AND ADJUST EACH INDIVIDUAL DOOR SO THAT IT COMPLIES TO THE RELEVANT STANDARD.

Auto Reverse Force – Opening

This is a force form 1- 20 that dictates the amount of force required on the door to stop it during its opening cycle. General use is set at 1 which is the minimum amount required to stop the door. Please adjust up if you get Reversing failures.

Please note: if this number is set too low the door may stop at different positions in its travel as it will see them as obstructions

Closing Speed Group

1-5 - Single door settings

6-9 – Double door settings

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Please note: if this number is set too low the door may stop at different positions in its travel as it will see them as obstructions

Door Hold Open Time

This is where you adjust the time in seconds, which the door waits in its fully open position once it has received an activation from the Inner & Outer Sensor Contacts before it starts to close. (No 3+4/11+12)

Key Entry Hold Open Time

This is where you adjust the time in seconds, which the door waits in its fully open position once it has received an activation from the Key Input contacts before it starts to close.

(No 33+34)

Opening Direction

When you start the door in its “Learn mode” The door will start to open first. If the door starts to close then you need to change the opening direction.

This is the direction the door opens to from its closed position.

Partial Opening

This Screen is where you select a percentage of the overall opening. This percentage is then use in Partial opening and Auto width operating Modes.

Asset Description

This screen is to set an asset Reference or name to the door that is displayed on screen for identification purposes. Scroll up or down to select the digit or letters required and press select. (9 available)

Please note: An identifying Asset Ref is only displayed if you enter it here.

Service Number

This screen is to set the Telephone number that is displayed on screen when a major fault occurs. Scroll up or down to select the digit or letters required and press select.

(12 available)

TIP: When you have finished your adjustments, you can press the up and down arrows together at any time to short cut you straight back to the exit screen.

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

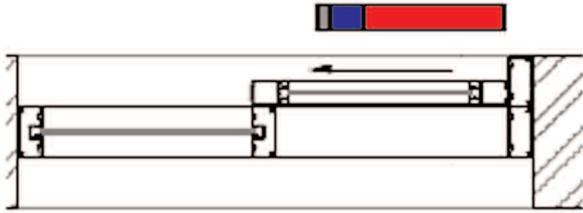
To gain Access to the Technicians mode, you need to press the up button three times and then the down button three times followed by select. This will take you to the first screen of the Technicians menu. From here you can navigate up or down through the Menu as detailed below. To exit a sub menu press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

	Main Menu Options	Sub Menu
START -	1. Return to Customer Operating	N/A
	2. High speed opening	17 - 100%
	3. Low speed opening	8 - 99% (Wont exceed the High Speed)
	4. Creep speed opening	10 - 20%
	5. Braking force - opening	1 .- 40
	6. Braking distance	1 - 100%
	7. Auto reverse force	0 - 20
	8. High speed closing	15 - 100%
	9. Low speed closing	8 - 99% (Wont exceed the High Speed)
	10. Safety speed Closing	10 - 20%
	11. Braking force - Closing	1. - 40
	12. Braking distance	1 - 100%
	13. Auto reverse force	0 - 20
	14. Holding force - Closed	0 - 2
	15. Partial opening	50 - 80%
	16. Pharmacy width	5 - 50%
	17. Motor lock	ON / OFF
	18. Aux lock	ON / OFF
	19. Lock type	FAIL SAFE / FAIL SECURE
	20. Lock open delay	0 - 60 SECONDS
	21. Battery monitoring	ENABLED / DISABLED
	22. Battery mode	SINGLE OPEN/ SINGLE CLOSE/CONTINUOUS
	23. Door hold time	0 - 60 SECONDS
	24. Key hold time	0 - 60 SECONDS
	25. Auto width change time	10 - 60 SECONDS
	26. Auto width Resume time	10 - 60 SECONDS
	27. Auto Brake Adjustment	FIXED POS / AUTOMATIC
	28. Fire - n/c - no	NORMALLY OPEN / NORMALLY CLOSED
	29. Service number	13 SELECTABLE DIGITS
	30. Opening direction	RIGHT TO LEFT / LEFT TO RIGHT
	31. Asset description	9 SELECTABLE LETTERS & DIGITS
	32. Interlock - enable	ENABLED / DISABLED
	33. Door info - mains, battery, Act	INFORMATION ONLY
	34. Monitored safety screen	INFORMATION ONLY
	35. Set time and date	24HR CLOCK AND CALENDAR
	36. Error log	HOLDS LAST 20 LOGS / DELETE LOGS

Technicians Mode – Explanation

TIP: When you have finished your adjustments, you can press the up and down arrows together at any time to short cut you straight back to the exit screen. Press select on the exit screen and you will exit engineer's mode and return to the customer menu.

Opening Speed Adjustments



1. **RED** - High Speed Opening
(plus Braking force and distance)
2. **BLUE** - Low Speed Opening
3. **GREY** - Final Speed (Relates to low speed)

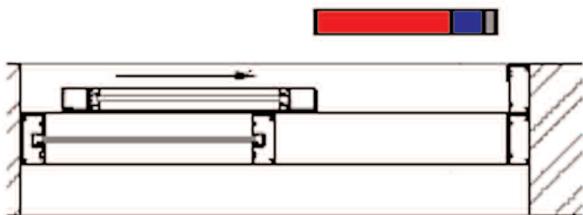
This diagram is an indicator of the opening movement of the front edge of a sliding door. The first Part is the high speed opening. It's during this first part of its cycle that the door travels its quickest. The door will then brake, and cut into its low speed opening. The door will then slow into creep speed for its very last part of travel.

The smooth motion is very important with an automatic sliding door, if you change the high speed or low speed settings then you may need to increase the braking force or how long the brake is applied to create a smooth flowing cycle.

Opening – Auto Reverse = This is an adjustable force you need to set that will tell the door how much force is needed before the door will back away from an obstacle. This is important to get right, too gentle and a stone will cause the door to stop working, too strong and you could make the door unsafe. The Bs7036:1996 states a maximum 150Nm.

Please use your Newton Meter on all installations to confirm that your particular door is compliant with the BS7036:1996.

Closing Speed Adjustments



1. **RED** - High Speed Closing
(plus Braking force and distance)
2. **BLUE** - Low Speed Closing
3. **GREY** - Final Speed (Relates to low speed)

This diagram is an indicator of the closing movement of the front edge of a sliding door. The first Part is the high speed closing. It's during this first part of its cycle that the door travels its quickest. The door will then brake, and cut into its low speed closing. The door will then slow into creep speed for its very last part of travel.

The smooth motion is very important with an automatic sliding door, if you change the high speed or low speed settings then you may need to increase the braking force or how long the brake is applied to create a smooth flowing cycle.

Closing – Auto Reverse = This is an adjustable force you need to set that will tell the door how much force is needed before the door will back away from an obstacle. This is important to get right, too gentle and a stone will cause the door fully close, too strong and you could make the door unsafe. The Bs7036:1996 states a maximum 150Nm. Please use your Newton Meter on all installations to confirm that your particular door is compliant with the BS7036:1996. states a maximum 150Nm.

Please use your Newton Meter on all installations to confirm that your particular door is compliant with the BS7036:1996.

Holding force – Closed

This is an adjustable force applied to the door when in the closed position. This force is only applicable if the Motor Lock is turned OFF.

0. The door has little holding force. The door can be pulled manually and the “Push & Go” will activate after approx 20mm.
1. The door has a small holding force. The door can be pulled manually and the “Push & Go” will activate after approx 20mm.
2. The Motor powers against the stop slightly. This is quite strong but can still be overcome manually. (For total security Please turn the Motor Lock to ON.)

Partial opening

This adjustment is the Percentage of the door width that you want the door to open to when set in “Partial open” Mode. (Adjustable from 50% to 80% of the full opening width.)

Pharmacy width

This adjustment is the % of the door width that you want the door to open to when set in “Pharmacy” Mode. (Adjustable from 5% to 50% of the full opening width.)

Motor lock

This Function allows you to turn the Motor Lock On or off when the door reaches its closed position.

Aux lock – on/ off

Should you wish to fit an additional Lock or Relay to the door via the Auxiliary lock out put you will need to enable this function.

Lock type – safe/secure

Should you wish to fit an additional Lock to The door via the Auxiliary lock out put you will need to pick from Fail safe or fail secure option.

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

Lock open delay

This is an adjustable time (In seconds) between the lock turning off and the Door opening. Especially useful when installing electric locks that have a tendency of binding.

Battery monitoring

Default to ON as per the requirements of the BS7036:1996. The door should always be ran with a battery. This function enables you to isolate the batteries if faulty, to confirm that that is the only problem with the door system. 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.

Fail open – In the event of a mains power failure the door will sit in the open position until the mains is reinstated.

Fail Closed – For use on security doors - In the event of a mains power failure the door will sit in the closed position & lock until the mains is reinstated.

Continuous - In the event of a mains power failure the door will continue to operate as normal on the batteries. When the system detects that the batteries only have enough power left for a few operations then the door will sit in the open position until charged enough to continue or the mains is reinstated.

Please Note: If the batteries are completely extinguished, they may take several hours to recharge dependant on the age of the cells.

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.

Auto width change time

If Using the Auto width function, you may need to adjust this timer; this timer is the Time (In Seconds) that the control unit counts down from at its open position. If the door is activated the door will open to its partial opening %. If activated again within the number of second adjust here, It will open but to the full door width.

Auto width Resume time

If Using the Auto width function, you may need to adjust this timer; this timer is the time (In Seconds) that the control unit counts down from its last activation. If the door does not receive activation within the time set here, it will resume opening at partial %.

Fire Alarm

The Fire alarm input for the premier-slide is a volt free activation.

On this screen you can choose between N.C and NO dependant on your fire alarm requirements.

N.C = Normally Closed

N.O = Normally Open

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

Opening direction

Here you select the opening Direction of the Operator. Mainly used when installing Single sliding doors. When you start up a new door system, it should open first on it's learn cycle. If the door tries to close first, please change the opening direction via 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.

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.

You will need to enable this Interlock function, the aux lock function and set the lock type to fail safe.

Connection is made from the Interlock Input terminals (35+36) to the Aux Lock output on the sister doors control unit .

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.

Line 1 – Mains voltage

Line 2 – Battery Voltage

Line 3 – The last activation received

Line 4 – Current Activation received

Line 5 – Any current ERRORS

Monitored safety screen

On this screen it gives you the details of your safety sensors (Threshold and side screen sensors)

Each sensor will be in Green and will have a yes or No next to it.

This Yes or No indicates if the Sensors are monitored or not.

(Automatic detection upon installation of sensors)

If any of the Sensors are activated, the Text turns to red.

Example:

SIDE SCREEN L/H – NO = Left hand side screen sensor is not a monitored sensor but it is being activated, Check for Objects in the sensor field and check the sensor is not adjust so it is seeing the door.

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.

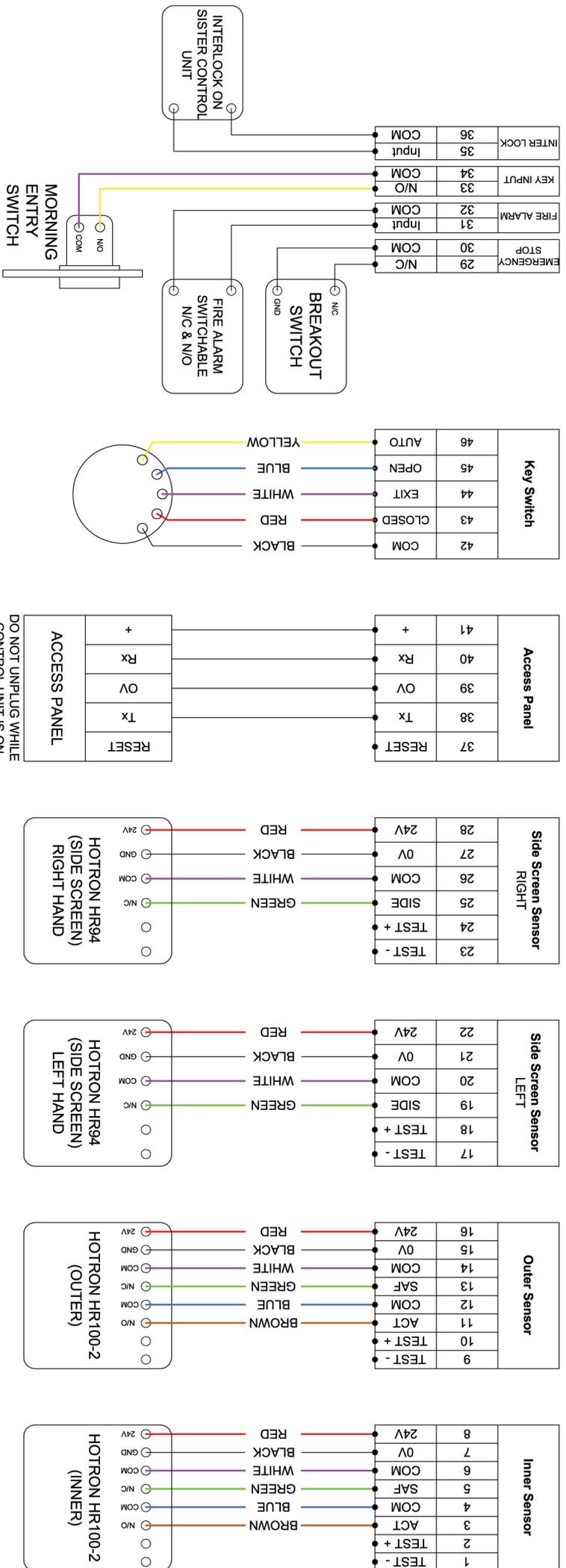
To exit please press select on any of the displayed errors or scroll down to the “Clear Logs” and press select.

Exit

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

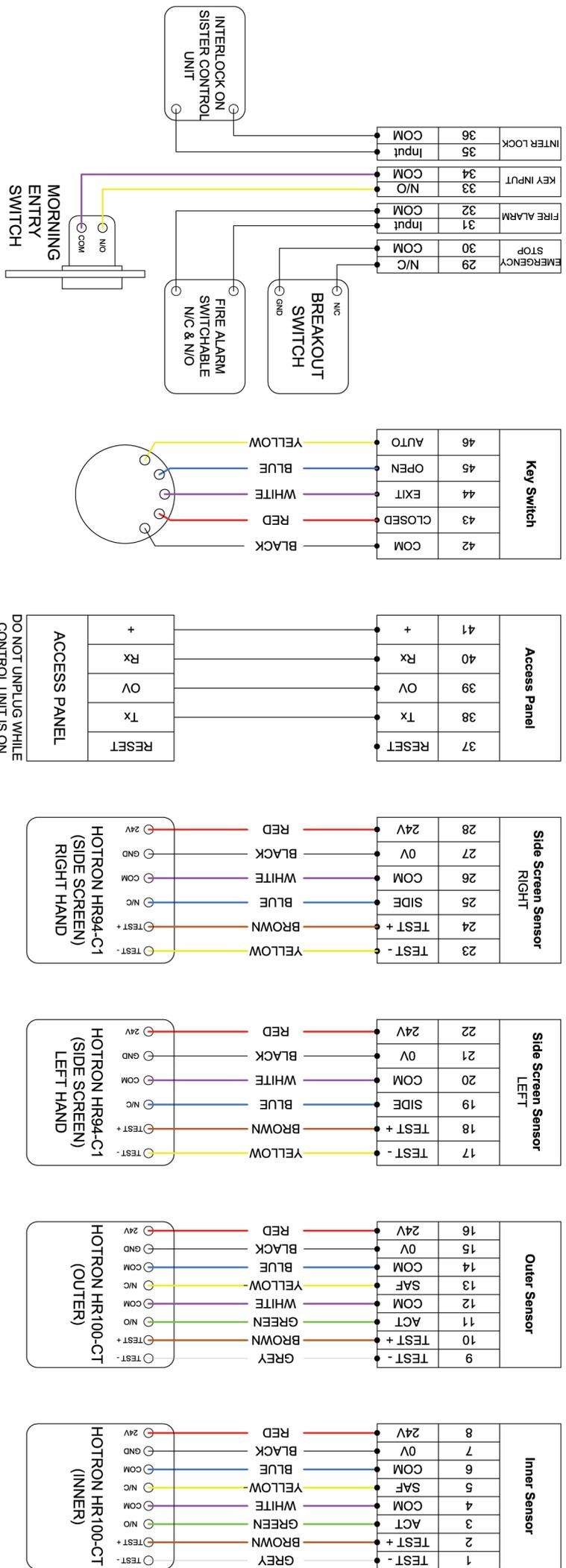
TIP: When you have finished your adjustments, you can press the up and down arrows together at any time to short cut you straight back to the exit screen.

Connection and wiring (non monitored sensors)



Note: Side screen & threshold safety sensor circuits are normally closed, it requires a link wire if not used.

Connection and wiring (monitored sensors)



Note: Side screen & threshold safety sensor circuits are normally closed, it requires a link wire if not used.

Door Weight

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

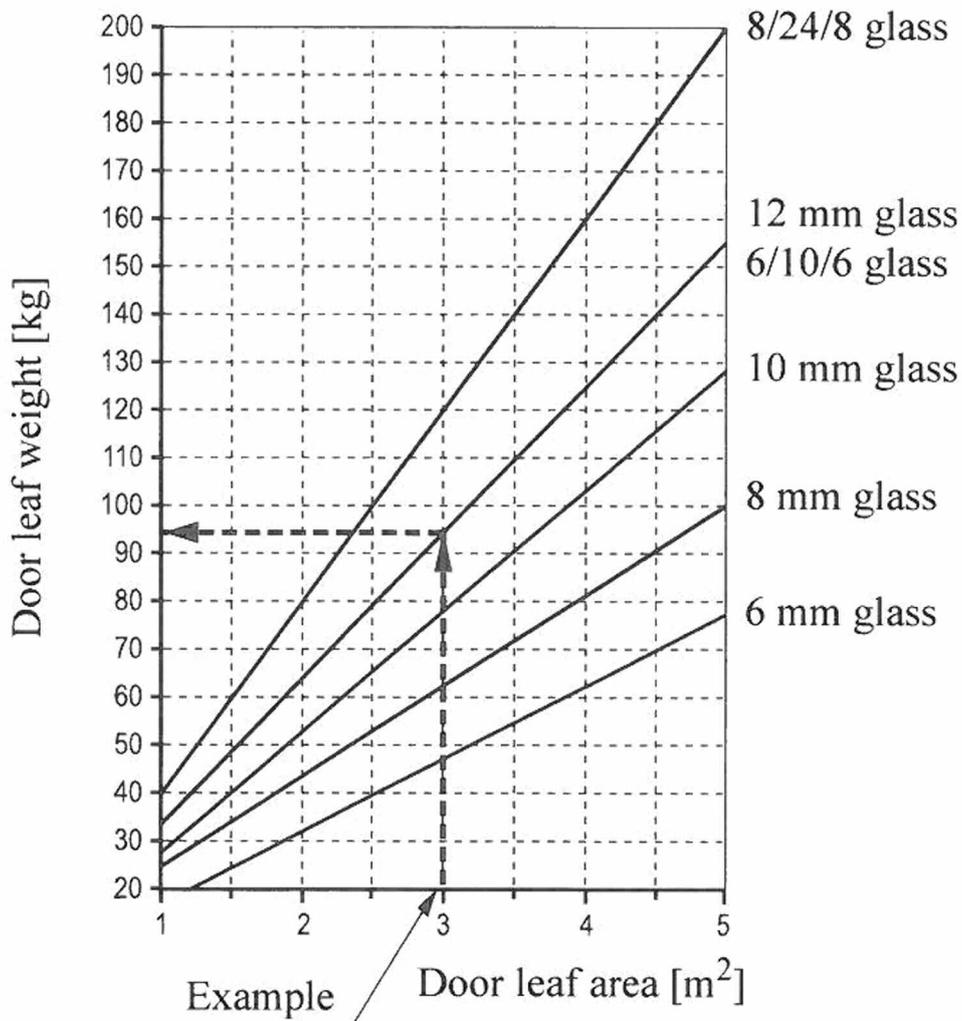
Please bear in mind that this table is for guidance only, it assumes that the door is made of typical 3mm wall aluminium without a midrail. Wooden, steel and other types of door should be assessed individually.

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.



Fault Finding

Fault Finding is made easy on the Premier-slide 100 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.

Activation Constant > 4 minutes -	ACTIVATION SENSOR FAILURE
Threshold Safety constantly active > 4 minutes – OR The monitoring system detects that the sensor has gone faulty	SAFETY SENSOR FAILURE
Side Screen Safety constantly active > 4 minutes – OR The monitoring system detects that the sensor has gone faulty	SIDE SCREEN SENSOR FAILURE
If the Key Input is constantly active > 4 minutes –	KEY SENSOR FAILURE
If the Fire alarm is activated –	FIRE ALARM
If the Emergency stop is used –	EMERGENCY STOP
If the Power is switched off or the Mains fuse is faulty-	MAINS FAILURE
If the batteries or Battery fuse are faulty -	BATTERY FAILURE
If you wire the Sensor Power in the wrong contact	SHORT CIRCUIT
Obstruction on Opening or closing	OBSTRUCTION ERROR
If the motor does not respond to the Controller	MOTOR DRIVE FAILURE
If the Access panel is wired Wrong or Faulty	NO COMMUNICATION

Faulty Table Help

<u>WHATS THE ERROR CODE</u>	<u>WHAT TO DO NEXT</u>	<u>POSSIBLE SOLUTIONS</u>
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
THRESHOLD ERROR	Check the Monitored Safety sensor Screen	Look for a loose connection Disconnect the offending activation, Put in a link wire and test the rest of the door
SIDE SCREEN ERROR	Check the Monitored Safety sensor Screen	Look for a loose connection Disconnect the offending activation, Put in a link wire 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 FAILURE 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.
OBSTRUCTION ERROR	Check the Door information screen and the Error Log	Remove the belt - Check that the doors are free to slide manually - Adjust as Required Check for Debris under the door and in the track where the wheel slide Increase the Auto Reverse forces to aid the door - Max 150N - As per Bs7036:1996
MOTOR DRIVE FAILURE	Check the Door information screen and the Error Log	Look for a loose connection on Motor Plug 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
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

General Fault Finding

WHATS THE FAULT	POSSIBLE REASON	SOLUTIONS
THE DOOR IS STANDING OPEN	<p>THERE MAY BE A LOOSE CONNECTION</p> <p>POWER MAY HAVE BEEN CUT - Defaulting the door to stand open</p> <p>THE SENSORS MAY BE WIRED INTO THE WRONG TYPE OF CIRCUIT</p> <p>THE DOORS MAY BE BINDING</p> <p>AN ACTIVATION DEVICE MIGHT BE CONSTANTLY ACTIVATING</p>	<p>CHECK ALL THE PLUGS ARE CORRECTLY FITTED IN THE CONTROL UNIT.</p> <p>CHECK THE CONTROL UNIT FUSE, MAINS SUPPLY AND THE ERROR LOG</p> <p>CHECK FOR CORRECT NORMALLY OPEN OR NORMALLY CLOSED CONNECTION</p> <p>CHECK THE DOORS SLIDE FREELY AND THERE IS NO DEBRIS UNDER THE DOOR</p> <p>CHECK FOR THE ACTIVATION ON THE DOOR INFORMATION SCREEN</p>
THE DOOR ONLY OPENS ABOUT 2/3	<p>YOU MIGHT HAVE IT IN PARTIAL OPENING MODE</p> <p>THE DOORS MAY BE BINDING</p>	<p>THE CHANGING OF THE MODE IS SELECTED BY HOLDING THE SELECT BUTTON FOR 3 SECONDS SCROLL DOWN OR UP UNTILL YOU REACH THE DESIRED MODE, PRESS SELECT</p> <p>CHECK THE DOORS SLIDE FREELY AND THERE IS NO DEBRIS UNDER THE DOOR</p> <p>TRY INCREASING THE OPENING AUTO REVERSE FORCE</p>
THE DOOR WON'T WORK AT ALL	<p>THE POWER MAY BE OFF</p> <p>THERE MAY BE A LOOSE CONNECTION</p> <p>THE SPEEDS MAY NEED ADJUSTING</p> <p>THE FUSE MAY HAVE BLOWN</p>	<p>CHECK THE MAINS HAS NOT BEEN INTERRUPTED AT THE SPUR</p> <p>CHECK ALL THE PLUGS ARE CORRECTLY FITTED IN THE CONTROL UNIT</p> <p>CHECK THE CONNECTIONS OF ALL SENSORS ETC IN THE CONNECTION UNIT</p> <p>CHECK THAT THE SPEEDS ARE NOT SET UP TOO HIGH, THIS CAN CAUSE OBSTRUCTION ERRORS</p> <p>CHECK THE DOOR IS IN THE CORRECT FUNCTION</p> <p>CHECK THE DOORS SLIDE FREELY AND THERE IS NO DEBRIS UNDER THE DOOR</p> <p>CHECK BOTH THE CONTROL UNIT AND CONNECTION UNIT FUSES</p>
THE MODE SWITCH HAS NO OPERATION	<p>THE MODE WIRE MAY BE SNAGGED</p> <p>THERE MAY BE A LOOSE CONNECTION</p>	<p>LOOK FOR SNAGS/ BREAKS IN THE WIRE FROM MODE SWITCH TO CONTROL PANEL.</p> <p>CHECK THE MODE SWITCH PLUG IS CORRECTLY IN THE CONTROL UNIT</p> <p>CHECK THE PLUGS IN THE BACK ARE IN CORRECTLY- AND ALL WIRES HAVE GOOD CONTACT</p>
DOOR RUNS IN CREEP SPEED ALL THE TIME	<p>THE SIDE SCREEN SENSORS MAY BE ACTIVATED</p>	<p>IS THERE ANYTHING IN THE WAY THAT MAY BE ACTIVATING THE SAFETY SENSORS?</p> <p>CHECK THE LINK BETWEEN THE SIDE SCREEN INPUTS IS IN PLACE AND NOT LOOSE -</p>

Paint Care

Although Powder coating is a long life finish of up to 25 Years, care should be taken when handling products that have been finished. Sharp edges can scratch and Pierce Powder coated surface.

Powder coating should be cleaned down with warm water and a mild detergent. Do not use any strong cleaning chemicals as it may affect the paint.

Technical Specification

	Single Door	Double Door
Max Door Width	2000mm	3000mm
Max Door Height	3000mm	3000mm
Max Door Weight	120kgs	180kgs
Mains Voltage	100v - 250 v ac	
Hold Open time	0 – 60 Sec	
Opening Speed	Max 600mm / Sec	
Closing Speed	Max 600mm / Sec	
Partial Opening	Adjustable 50 - 80% of Opening Width	
Aux Power Supply	24v dc 2amp	
Ambient Temp	- 20 to +55	

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 18month 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.

Declaration of Conformity (CE)
73-25 EEC (Low voltage Directive)
89-336 EEC (Electromagnetic Compatibility)