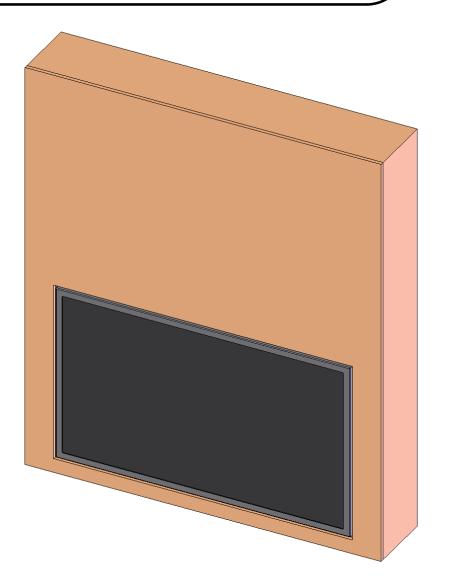
SPS V 800 Sliding Panel System With Plasma Advance Instruction Sheet www.futureautomation.co.uk







Sliding Panel System With Plasma Advance

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IR Remote Control **x**1

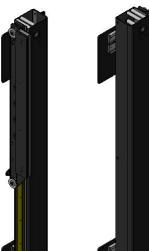


Your Pack Should Contain

One SPS SP V 800 mechanism. A Single Panel mechanism for Vertical travel. Moves panel in and up or in and down. It has a maximum travel of 800mm. For use with panels no larger than 800mm high.

Panel Mechanisms

RIGHT x1 LEFT x1



Drive Unit



Fixtures Pack Including

Group A Mounting Kit x1 M5 x35mm Bolts x4 M5 Nuts x4





Plasma **Advance Unit** Rollers x2



Control Box & Necessary Cables



Panel Mount **Plates** x2

Plasma Advance Unit x1

> **Side Runners** & Nuts+Bolts x2

SPS V 800 PS Bracket with Bracket Adjusters

WARNING

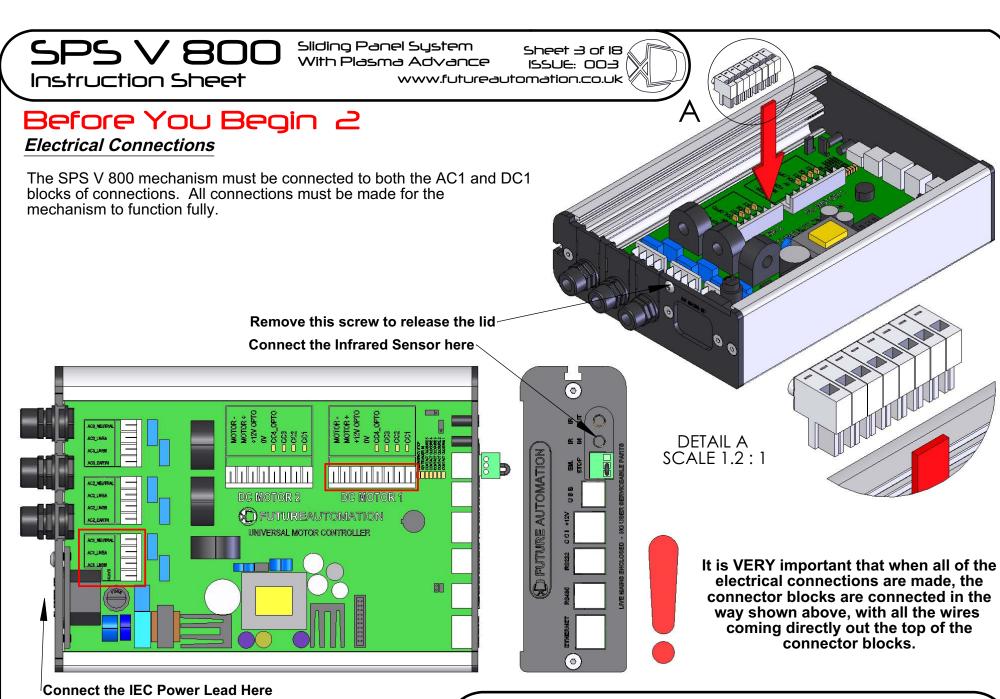
It is the responsiblity of the installer to warn all potential end users of the dangers of interfering with mechanisms during operation

IMPORTANT

Mechanisms which lift or move weights need to be checked on a yearly basis for any damage which may result in an accident



SPS V 800 Sliding Panel System Sheet 2 of 18 NOTE: With Plasma Advance Panel Advance Shaft rotates ISSUE: 003 180°to create a forward-back Instruction Sheet www.futureautomation.co.uk motion of 40mm. If out of sync by 180° it may jam. Before You Begin I **Preliminary Checks** The enclosure to house the mechanism should be completely finished prior to installing the mechanism. It is important to check various dimensions against the Technical sheet for this mechanism prior to starting the installation. This Panel Panel will highlight any errors which may make installation impossible. Advance Movina Shaft Shaft It is well worth setting up the mechanism out of the cabinet to familiarise yourself with the general operation. Set up as shown. The drive unit shafts engage with the couplers on the panel mechanism. See detail A, right. The M5 x 35mm bolts connects them. Plug the units together with the leads from the control box. The panel mechanism **DETAIL A** connection can be found tucked in one end of one of the mechanisms. See sheet **SCALE 1:5** 3 for further details of the elctrical connections. Plug the infrared receiver cable into the 3.5mm Jack connector. NOTE: Plug into the mains and press 'OUT' on the remote control. The panel mechanism The mechanism is set up to should initially move back and then move off to the side. The plasma advance move about panel height + 30mm. unit should then move out. Pressing 'IN' on the control reverses the operation. 'STOP' is the Stop. Do not adjust any of the cams on the mechanism. They are factory set to the correct positions. If you think you need to make adjustments to the cams please contact Future Automation first.



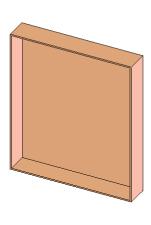


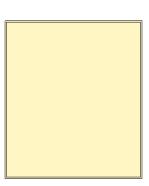
Sliding Panel System With Plasma Advance

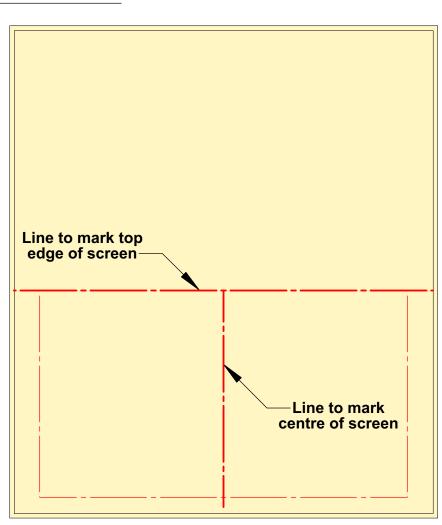
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Stage I

Mark The Screen Position In The Enclosure







Marking Up

Firstly, mark where you intend the top of the plasma screen to be on the back wall of the enclosure.

Then mark a line showing where the centre of the screen / opening will be.

It may be helpful to mark out the outline of the whole plasma screen on the wall. This will help when positioning the moving panel mechanism.



Sliding Panel System
With Plasma Advance

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Measure

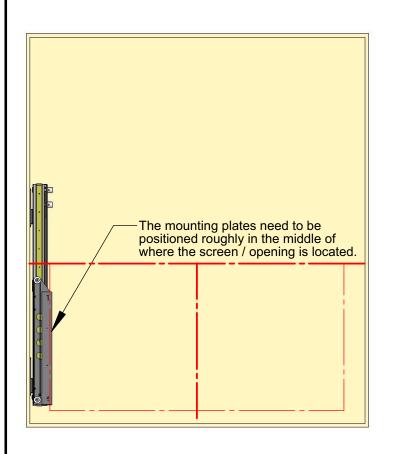
Place one of the moving panel mechanisms on the side of the enclosure. Raise the mechanism until the mounting plates are roughly in the middle of the screen position.

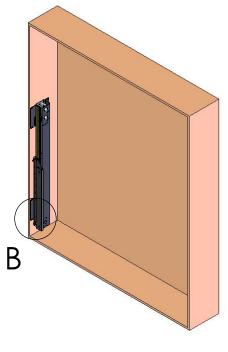
With the mechanism in place, measure the height that is needed to acheive this position.

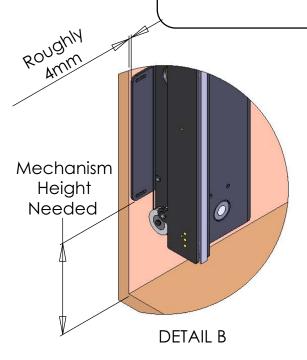
Stage 2

Positioning The Moving Panel Mechanisms

Before the mechanisms can be fitted, it is important to decide on the exact positions where they need to be. Make sure that you have the mechanisms in the down and in position at this point.









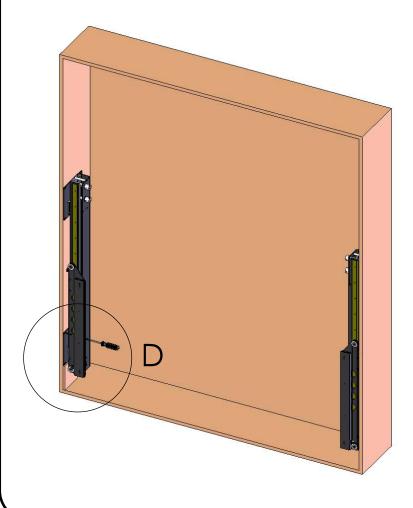
Sliding Panel System With Plasma Advance Sheet 6 of 18 ISSUE: 003 tomation.co.uk

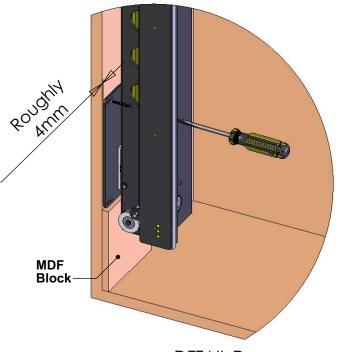
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Stage 3

Fitting The Moving Panel Mechanism

Before fixing the mechanisms, it is a good idea to cut a piece of wood to the size that you have just measured to provide the correct height. You can then sit both the mechanisms on the block of wood, knowing they are both at the correct height.





DETAIL D SCALE 1:6

Fixing

The moving panel mechanisms should be positioned roughly 4mm in from the the edge of the enclosure.

Be sure to fix in the centre of the fixing slots to allow for adjustments at a later stage.

Make sure to use the appropriate fixing type for the material you will be fixing to.

Make sure the mechanisms are level and parallel with each other before continuing.



Sliding Panel System
With Plasma Advance

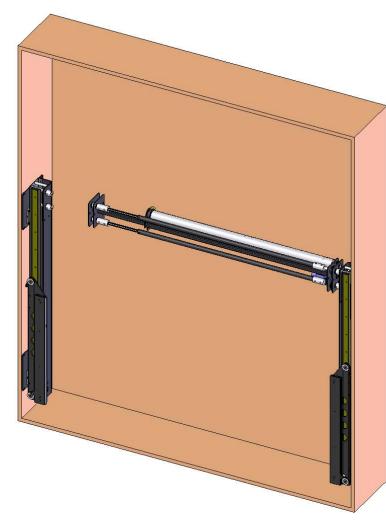
el System Sheet 7 of I8 la Advance ISSUE: 003 www.futureautomation.co.uk

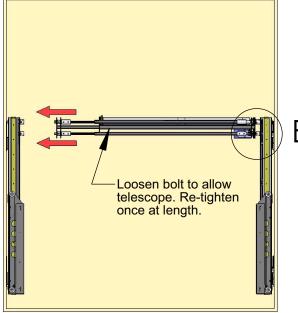


Stage 4

Fitting The Drive Unit

It is important that at this point both moving panel mechanisms are in the same down and in position.





From your test earlier (page 2) you should be able to make sure the shafts are not 180° out of sync at this stage.

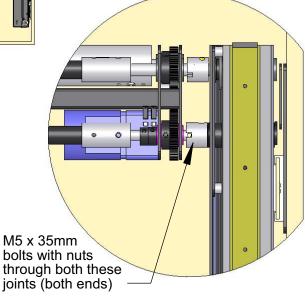
Fitting

The drive unit is a telescopic piece of equipment. Locate the 'motor end' of the unit in the two couplers at the top of the right hand moving panel mechanism first.

Then extend the drive shafts of the unit until they locate in the couplers on the left hand moving panel mechanism.

Then use the M5 x 35mm bolts and nuts to secure the shafts in the couplers.

DETAIL E



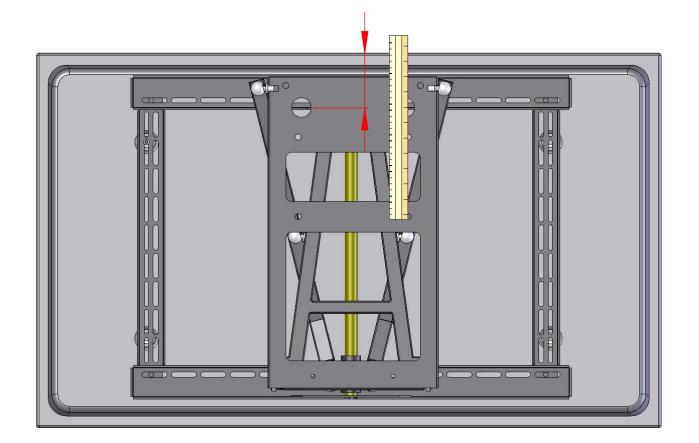


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Stage 5

Fit The PS Bracket To The Back Of The Screen



Measure

Measure the distance from the top of the screen down to the centres of the two largest mounting holes in the PS Bracket wall plate.

This measurement will be needed to establish where the plasma advance heavy unit has to be located on the wall.

Once you have made that measurement, remove the screen and prepare to fix the bracket to the wall or rear of the encolsure.



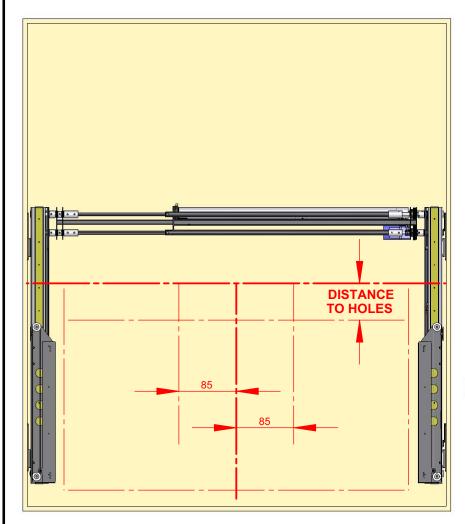
Sliding Panel System With Plasma Advance

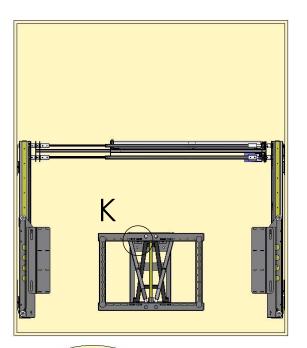
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Stage 6

Fitting The PS Bracket To The Wall







DETAIL K SCALE 1:4

Marking Up

Mark a line across the back of the enclosure that marks out the vertical position of the largest set of holes on the wall plate.

This is where the measurement that you took in stage 5 is required.

You can also mark where the sides of the wall plate need to be. The holes are 170mm apart, so mark two vertical lines 85mm to each side of the centre line you marked out earlier on.

Fixing

Using the guide lines you have marked on the wall, place the bracket on the wall and move until the two holes lay in line with the horizontal and the vertical lines you marked out.

Fix through the holes and the bracket adjusters. The adjusters will then give adjustment in all directions. Bracket height can be altered by the bolts being screwed up or down.



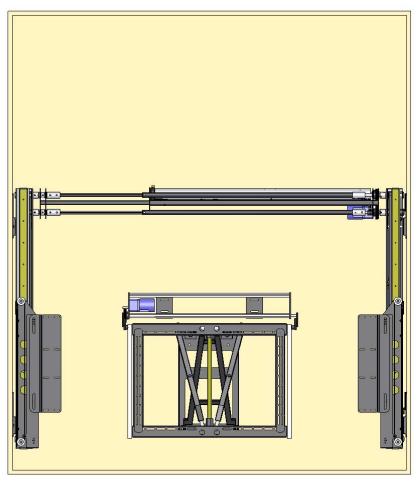
Sliding Panel System With Plasma Advance

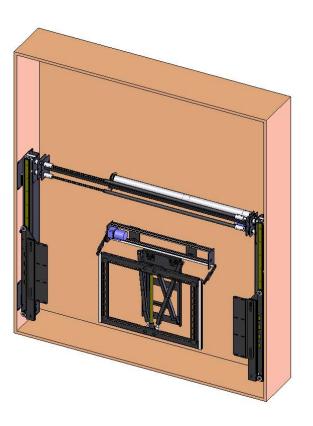
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Stage 7

Fitting The Plasma Advance Unit

Firstly, bolt the two side runners on to the sides of the PS bracket so that the arms of the Plasma Advance Unit can slide up and down the channels.





Positionina

Firstly, operate the Plasma Advance Unit so that it is in the 'OUT' position.

This should make it easier to determine where the mechanism needs to be positioned.

In the 'OUT' position, the rollers at the end of the arms should be right at the top of the side runners on the PS bracket.



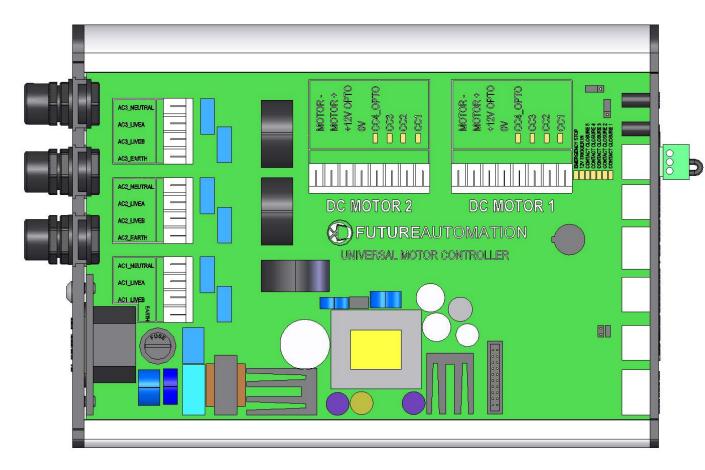
Sliding Panel System
With Plasma Advance

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Stage 8

Connecting The Mechanisms



Connecting

To connect the three mechanisms together electrically, is very simple.

Each mechanism has a set of wires coming from it.
On the ends of the wires are control box inserts and block connectors.

These wires are marked with a label telling you which set of connectors the block connectors must go to.

The inserts then slide into the slots on the side of the control box.

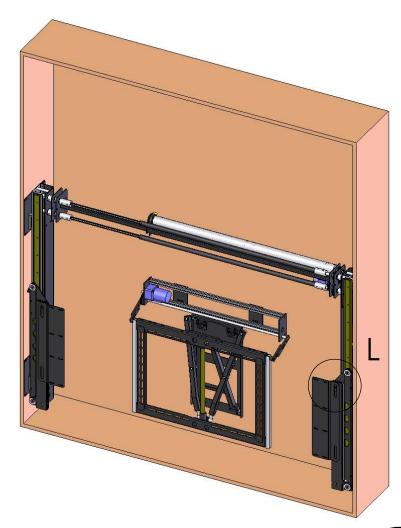


Refer to Sheet 14 for further details on connecting the mechanism.

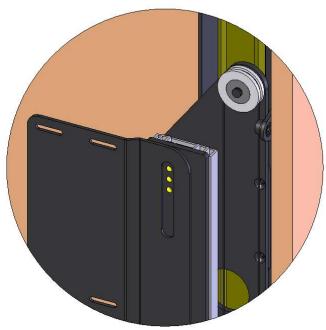


Stage 9

Fitting The Panel Mounting Plates



The mounting plates fix to the runners with M6 x 10 CSK bolts with washers. There are a choice of 3 heights to fix the bolts on to. The large slots also allow for a lot of adjustability. Use two fixings in each slot.



DETAIL L SCALE 1:3

Following fitting the mounting plates, it is a good time to test the mechanism is still operating corectly. Use the supplied IR remote to control the mechanism.



Sliding Panel System
With Plasma Advance

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Fixing

Fix the front panel to the enclosure. Measure the height of the panel mounting plates from the bottom of the opening.

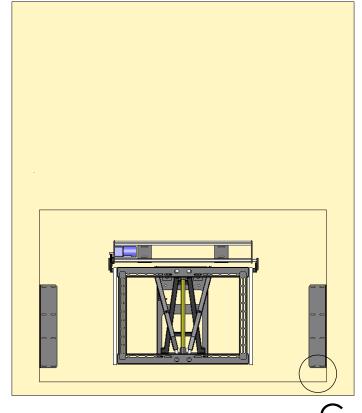
Remove the front panel, and the panel mounting plates.

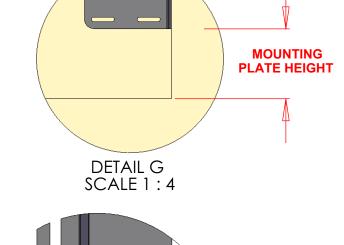
Then screw the panel mounting plates to the back of the moving panel, with the white panel washers between the panel and the plates.

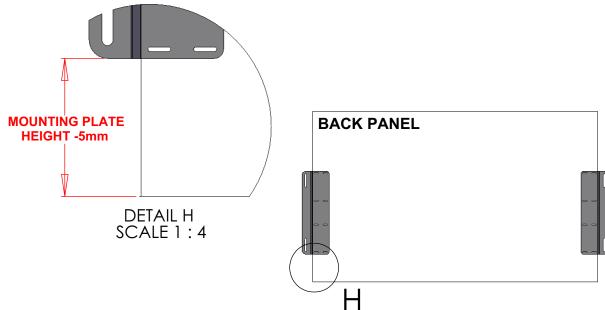
Then fit the moving panel to the mechanism and re-attach the front panel.

Stage IO

Fit The Front Panel & Moving Panel









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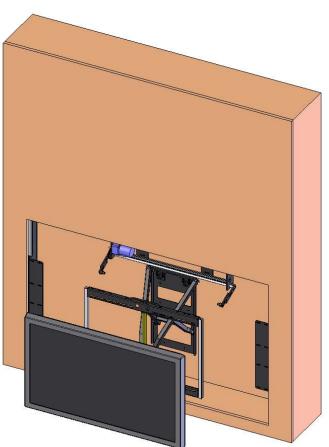
Stage II

Fitting The Plasma Screen

In order to fit the plasma screen, the mechanism must be extended to it's full reach. Press 'OUT' on the remote control and wait for the plasma advance mechanism to reach its pre-set out position.

Once out, press 'B' on the the remote control repeatedly to pulse the mechanism out until the frame is extended fully. The mechanism is now in a service mode.

Once extended, the frame can be manually pulled out further, so that the plasma screen with uprights can be bolted to the frame.



Screen **Adjustments**

Once the screen is bolted to the frame, the position of the screen may require some finer adjustment.

Adjustments can be made by altering the position of the slotted uprights and where the screen is bolted to on the uprights.

If more adjustment is still needed, remove the screen and make adjustments to the PS bracket adjusters, as shown on Sheet 9.



To return the mechanism from service mode to user mode, press 'A' repeatedly on the remote to pulse the framework back in. Once the mechanisms won't go back any further, wait for two seconds, and the mechanism is then in user mode.



Sliding Panel System
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Stage 12

Operating The Mechanism



OUT

Panel moves in and up and plasma moves OUT to fill space

IN

Plasma moves back IN and panel moves down and out to fill space

STOP

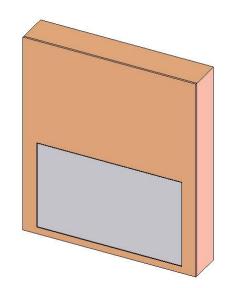
Stops the mechanism

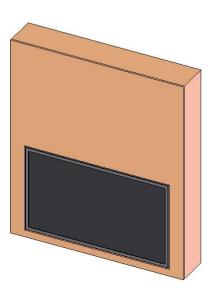
В

Pulses the plasma advance mechanism OUT in order to gain access to rear screen in service mode

Α

Pulses the plasma advance mechanism IN when entire mechanism is in OUT position







SPS V 800

Instruction Sheet

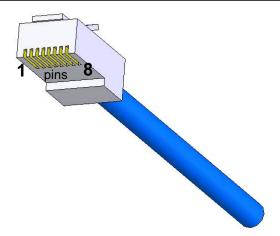
Sliding Panel System
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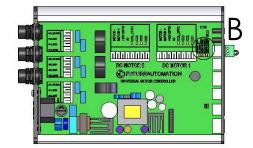
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Contact Closure

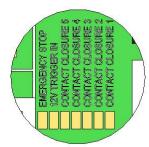
Use an RJ45 connector in the CC1 socket on the control box to operate via contact closure.





There are a number of LEDs which will light up when the corresponding contact closure connections are shorted together.

A red LED will light up when the emergency stop link is removed.



DETAIL B SCALE 1.5:1

PIN	568 A	568 B	DESCRIPTION	ACTION	
1	W/G	W/O	12V SUPPLY CURRENT LIMITED		
2	G	0	12V TRIGGER	When 12V is attached, device will go OUT. When 12V is removed, device will go IN.	
3	W/O	W/G	GROUND		
4	BL	BL	DEVICE TOGGLE	Momentary short to ground will switch the device between states of IN / OUT.	CC5
5	W/BL	W/BL	DEVICE IN LATCHED	When shorted to ground, device will go OUT. When short removed, device will go IN.	CC4
6	0	G	DEVICE STOP	When shorted to ground, stops device in current position.	ССЗ
7	W/BR	W/BR	DEVICE IN	Momentary short to ground will make device go IN.	CC2
8	BR	BR	DEVICE OUT	Momentary short to ground will make device go OUT.	CC1



SPS V 800

Sliding Panel System
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Instruction Sheet

RS232

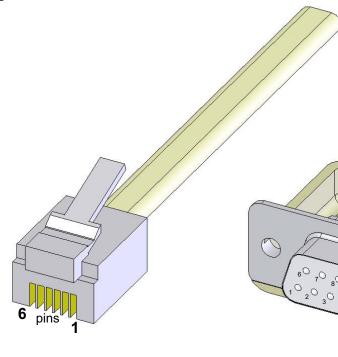
Use an RJ11 connector in the socket marked RS232 on the control box to operate using RS232.

DETAILS

Band rate: 9600 Stop bit: 1 Parity: None Databits: 8

PROTOCOL

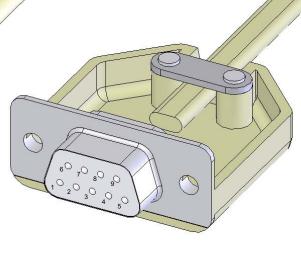
ASCI fa in, = Device IN fa out, = Device OUT fa stop, = Device STOP



PIN 1: IN

PIN 6: OUT

PIN 3&4: GROUND



PIN 2: IN

PIN 3: OUT

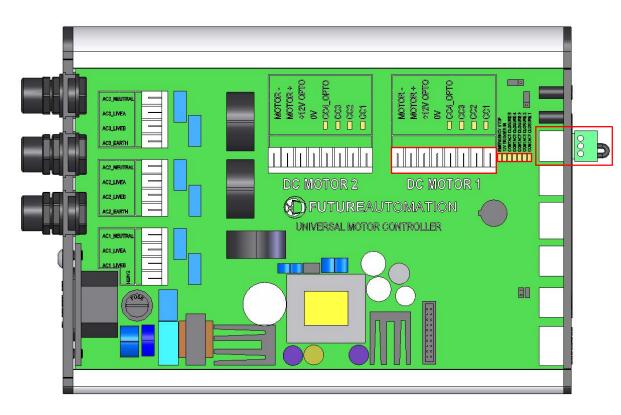
PIN 5: GROUND



Sliding Panel System
With Plasma Advance

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Operation Details



Contact Closure LEDs

To show the contact closure operation is working correctly. LEDs are on when connections are shorted together.

EMERGENCY STOP

This connection will stop all functions of the mechanism once broken / removed. Red LED will also be on.

