Programming Digital Limits

On initial power-up, the controller will automatically detect any devices that are connected (limit type, safety edge etc) and enter Programming Mode, indicated by a constant, slow-flashing Red L.E.D. *Note* : Only the internal board mounted '+', '-' and 'P' buttons will operate in Programming Mode. Please observe the following procedure to set the limits :-

Run the door to the Open position and press the 'P' & '+' buttons together to save the Open Limit position. The Red L.E.D. will flash rapidly for 1 second to indicate that the limit position is now stored.

Run the door to the Close position and press the 'P' & '-' buttons together to save the Close Limit position. The Red L.E.D. will flash rapidly for 1 second to indicate that the limit position is now stored.

The Limit Programming Mode will then end automatically and the Red L.E.D. will stop flashing.

If the controller does not enter Programming Mode, or you wish to re-enter Programming Mode, please press the 'P' button for at least 2s. The Red LED will flash slowly and the Programming procedure above may then be followed.

Setting Mechanical Limits

On initial power-up, the controller will automatically detect any devices that are connected (limit type, safety edge etc) and enter Programming Mode, indicated by a constant, slow-flashing Red L.E.D. <u>Note</u> : Only the internal board mounted '+', '-' and 'P' buttons will operate in Programming Mode. Please observe the following procedure to set the limits :-

Use the '+' button to run the door to the Open position and adjust the Open Limit cam to suit.

Use the '-' button to run the door to the Close position and adjust the Close Limit cam to suit.

When both limits have been set, press the 'P' button for at least 2s. The Limit programming Mode will then end and the Red L.E.D. will stop flashing.

Please refer to the Door Operator Manual for instructions on how to adjust the mechanical limit cams.

- Changing Motor Direction

If the motor travels in the wrong direction i.e. drives Open when the Close button is pressed, then the motor direction can be changed by removing the power and interchanging two of the incoming supply phases. If the operator is reverse mounted (or if normal open rotation is reversed i.e gear & pinion drive) pressing both the '+' & '-' buttons for 5 seconds when in limit programming mode will reverse the motor direction. The Red L.E.D. will flash rapidly to indicate the change of direction. The Limit Programming procedure may then be restarted.

Resetting Limits

To reset the limits, enter Programming Mode by pressing the 'P' button for at least 2s. The Red LED begins to flash slowly and the Limit Programming procedure above may then be restarted.

Note :- If both Open & Close Limits have already been set, it is possible to change only one position (i.e. No requirement to program both limit positions again). After adjusting the required Limit position(s), exit Programming by pressing the 'P' button for at least 2s.

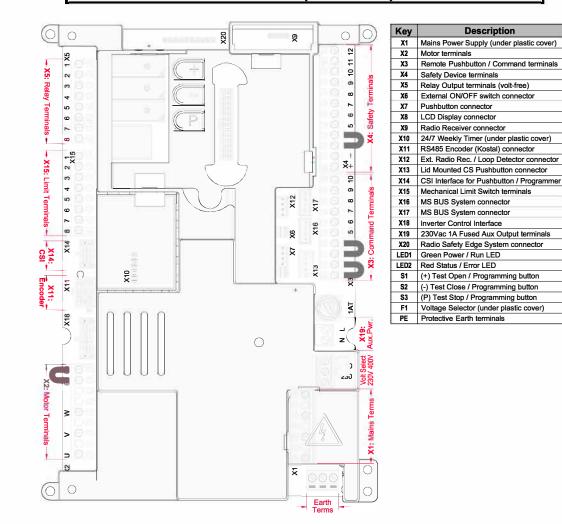
Resetting the Control Panel

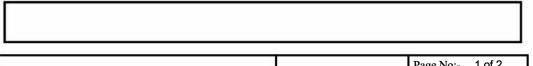
The CS310 can be reset back to factory defaults at any time. This may be required if the CS310 has been powered without the correct limit type connected (e.g. digital limit encoder un-plugged) causing the automatic detect to fail, or if the CS310 has been used on a previous installation. To initiate the reset, press & hold the 'P' and '-' pushbuttons as the power is turned back on. Keep both buttons pressed until the Green L.E.D. turns on (after approx 10s). The CS310 will then re-start.

L.E.D.	Tag	Status	Error	Comment/Action		
1 (Green)	Power	Off	No Supply present	No operating voltage supply present		
2 (Red)	Error	1 x Flash	Error STOP	Stop circuit interrupted - Check Manual Override & any Stop pushbuttons/Circuits		
		2 x Flash	Error RS485	System stopped; Encoder communication error. Acknowledge the error by pressing Stop; restart by pressing the button.		
		3 x Flash	Error Travel Limit	System stopped and no door movement possible. Disconnect the P.C.B. from the power supply; reprogram the travel limit positions.		
		4 x Flash	Error Motor Direction	System stopped and no door movement possible; Phase rotation is incorrect Reverse the motor direction as per the 'Changing Motor Direction' procedure (see above).		
		5 x Flash	Error Power	System stopped. Acknowledge the error by pressing Stop; restart is possible by pressing the button.		
		6 x Flash	Error Running Time	System stopped. Acknowledge the error by pressing Stop; restart is possible by pressing the button.		
		ON	Safety Edge Fault / Not connected	Deadman close only possible - Check safety edge connections / or install safety edge for impulse close		

CS 310 Quick Start Guide (Stock Code: 40-4310)

WARNING! Read these instructions FULLY before use. Installation should only be carried out by a COMPETENT installer.

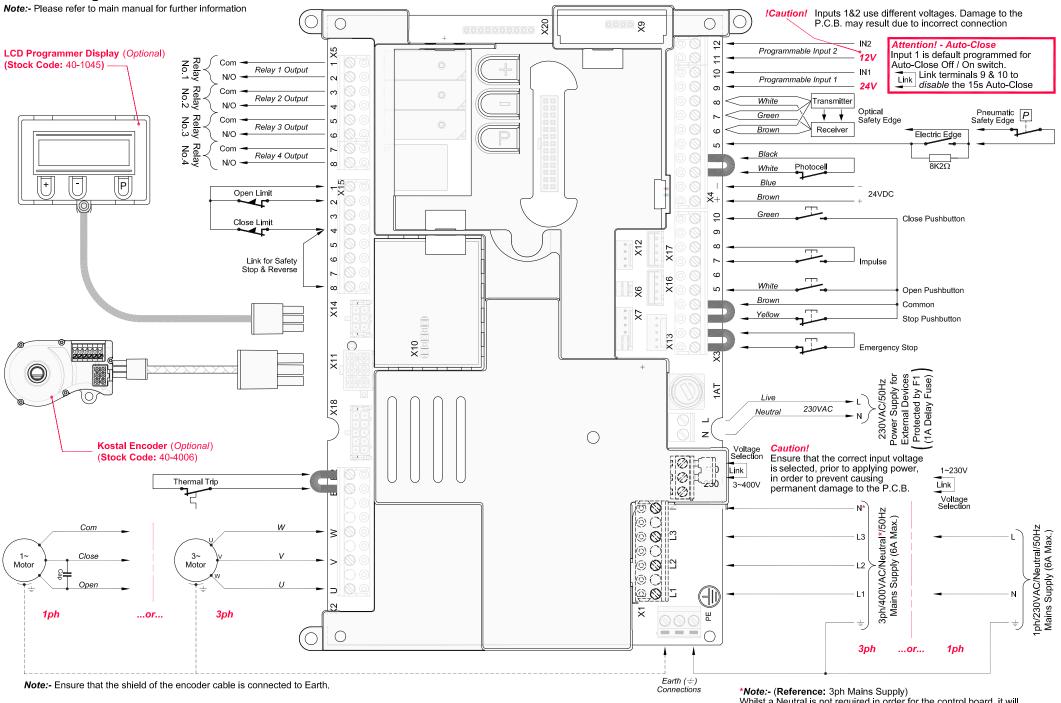




	Page No:-	1 of 2
	Rev Date:-	12/05/16
	Date:-	12/08/14

Note:- Once the error has been cleared, the P.C.B. must be powered Off & On again.

Wiring Connections



Whilst a Neutral is not required in order for the control board, it will prevent the use of the auxiliary 230VAC supply provided on X19