

### Setting the travel Limits

1. Position the door midway
2. Loosen the thumb screws
3. Wind both knurled nuts to the center of the travel rod
4. Re-tighten the thumb screws to allow the maximum travel in both directions

"OPEN" Direction	"CLOSE" Direction
<ol style="list-style-type: none"> <li>1. Run the door to the OPEN position</li> <li>2. Loosen the thumb screw and move the knurled nut until it operates the limit switch, at this point the 'GREEN' OPEN LED will switch on</li> <li>3. Test by bringing the door DOWN a short distance then UP again</li> <li>4. Re-adjust to achieve the correct position if necessary</li> </ol>	<ol style="list-style-type: none"> <li>1. Run the door to the CLOSE position</li> <li>2. Loosen the thumb screw and move the knurled nut until it operates the limit switch, at this point the 'GREEN' CLOSE LED will switch on</li> <li>3. Test by bringing the door UP a short distance then DOWN again</li> <li>4. Re-adjust to achieve the correct position if necessary</li> </ol>

### Note:

If the over-travel micro-switch is activated, the yellow fault light will flash (x3) and the unit will not operate electrically. The over-travel limit is therefore considered to be set too close in relation to the travel limit and requires adjustment. This is done by loosening the over-travel micro-switch fixing screw and sliding the switch towards the end of the limit assembly.

### Diagnostics - LED Indication

RED	Off	No mains power available		Check mains power supply
RED	On	Mains power present and unit powered		
GREEN	Off	Door between limit positions or No motor operation		
GREEN	Flashing	Door traveling in the direction selected		
GREEN	Constant	Final travel limit position reached		
YELLOW	Constant	-	Contactors Jammed	Replace Unit
YELLOW	Flashing	(x1)	Emergency Stop Button pressed or open circuit	Rectify Emergency Stop Circuit
YELLOW	Flashing	(x2)	Thermal Fuse operated	Motor over worked - allow 20mins to cool
YELLOW	Flashing	(x3)	Over-travel micro-switch operated	Adjust distance of over-travel micro-switch
YELLOW	Flashing	(x4)	Safety Brake operated or connection open circuit	Check Safety Brake link or Safety Brake
YELLOW	Flashing	(x5)	Open Relay stuck or faulty	Power Off / On, if fault remains change PCB
YELLOW	Flashing	(x6)	Close Relay stuck or faulty	Power Off / On, if fault remains change PCB
YELLOW	Flashing	(x7)	Push button short circuit or faulty	Check all pushbuttons contacts, change PCB

### Method of Control

The operation functions (Dead-man / Continuous Run) are set using the DIP switches located on the board.

The default operation of the motor is set to "Dead-man" both in the OPEN and CLOSE directions.

For continuous run (one press) the DIP switch must be moved. Once the selected DIP switch has been moved, the unit MUST be powered OFF - ON again for this to take effect.

	1	OPEN DIRECTION	On	Deadman
	2	CLOSE DIRECTION	On	Deadman

	1	OPEN DIRECTION	Off	Continuous Run
	2	CLOSE DIRECTION	On	Deadman

### Definitions:

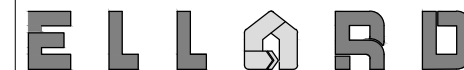
**Dead-man** - A continuous press of the control button is required to operate the motor. The motor will stop upon release of the button.

**Continuous Run** - One brief single press of the control button will start the motor, the motor will run until the final limit position is reached. The Emergency Stop button is pressed or a fault develops. A prolonged press of the control button will result in no motor action.

### IMPORTANT NOTE:

This unit does not directly accept any form of safety devices eg. Photocells or Safety Edge, therefore to comply with current legislation the closing direction must remain in a dead-man condition.

Title: JM500 - 1ph (Monitored PCB) SET UP INSTRUCTION			
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