

Overhead door operation

Module 1

The circuit is to be designed to open and close an overhead door.

- 1) To open the overhead door you must push either green pushbutton B2 or B4. It will stop when limit switch LS1 is activated. (M1 clockwise)
- 2) To close the door you must push either red pushbutton B3 or B5. It will stop when limit switch LS2 is activated. There must be a 10 second delay started when the door is opened before the door can be closed. (M1 counter clockwise)
- 3) When pushbutton B1 is pushed the operation of the door is stopped. No operation can be achieved until B1 is manually pulled into operation mode.
- 4) In case of a motor overload the operation of the door will stop.
- 5) H2 and H5 indicate the door is opening.
- 6) H4 and H7 indicate the door is closing.
- 7) H1 will indicate panel is energized.
- 8) H3 will indicate a motor overload.
- 9) When the door is moving in either direction H6 will flash at 2 Hz until door travel has stopped.