**Testing Schedule for garage door opening program**

The Zelio should be wired to the testing rig accordingly

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| --- | --- | --- |
| Inputs Table | | |
| Button/Switch label | Physical button | PLC connection |
| Open Door (Up) Button | Normally Open (NO) | I1 |
| Bottom Limit Switch (LS2) | Normally Open (NO) | I2 |
| Top Limit Switch (LS1) | Normally Open (NO) | I3 |
| Close Door (Down) Button | Normally Open (NO) | I4 |
| Stop Button | Normally Closed (NC) | IA |
|  |  |  |
| Outputs Table | | |
| Output device label | Physical device | PLC connection |
| Up LED | LED indicating motor moving door up | QB |
| Down LED | LED indicating motor moving door down | QD |
| Motor | Motor goes on | QF |
| Buzzer | Buzzer | QG |
|  |  |  |

Demonstration will involve loading your PLC program into a Zelio work station and running the PLC program.

The following tests will be conducted in this order

1. Pressing the up button I1 (NO) should result in outputs QB and GF going true.
2. Pressing the stop button IA (NC) should result in outputs QB and GF going false.
3. Pressing the down button I4 (NO) should result in outputs QD and GF going true.
4. Pressing the stop button IA (NC) should result in outputs QD and GF going false.
5. Pressing the up button I1 (NO) should result in outputs QB and GF going true.
6. Activating top limit switch I3 (NO) within 20s should result in outputs QB and GF going false.
7. Pressing the down button I4 (NO) should result in outputs QD and GF going true.
8. Activating bottom limit switch I2 (NO) within 20s should result in outputs QD and GF going false.
9. Pressing the up button I1 (NO) should result in outputs QB and GF going true.
10. Waiting for 20s should result in outputs QB and GF going false and output QG going true
11. Pressing the up button I1 (NO) should result in QG going false or pressing the down button I4 (NO) should result in QG going false.

