



## Notes

- R1 is a pre-set that allows for adjustment of 'Up' pulse Duration between 0 – 1.65 seconds
- R2 is a pre-set that allows for adjustment of 'DOWN' pulse Duration between 0 – 1.65 seconds
- C3 will discharge through R3 to provide a delay before 'UP' Pulse after the door is closed (One Time Constant equals  $3K\Omega \times 100\mu F = 0.3$  seconds – Capacitor take five cycles to fully discharge therefore  $5 \times 0.2 = 1.5$  seconds).
- R4 & R5 form a potential divider to drop the 12v supply down to 5v for the base of TR1.
- SW1 is a Reed Switch mounted within the door to isolate the module when the window has been lowered by the occupant. Failure to include this switch would cause the window to lift when the door is closed regardless of where the occupant left the window.