

BL110B BARRIER LOGIC

The BL110B is a barrier logic unit which has been developed to control barriers using magnetic motors with ease of installation. The BL110B accepts inputs from card readers and cash registers as well as an input from a loop detector for safety and closing.

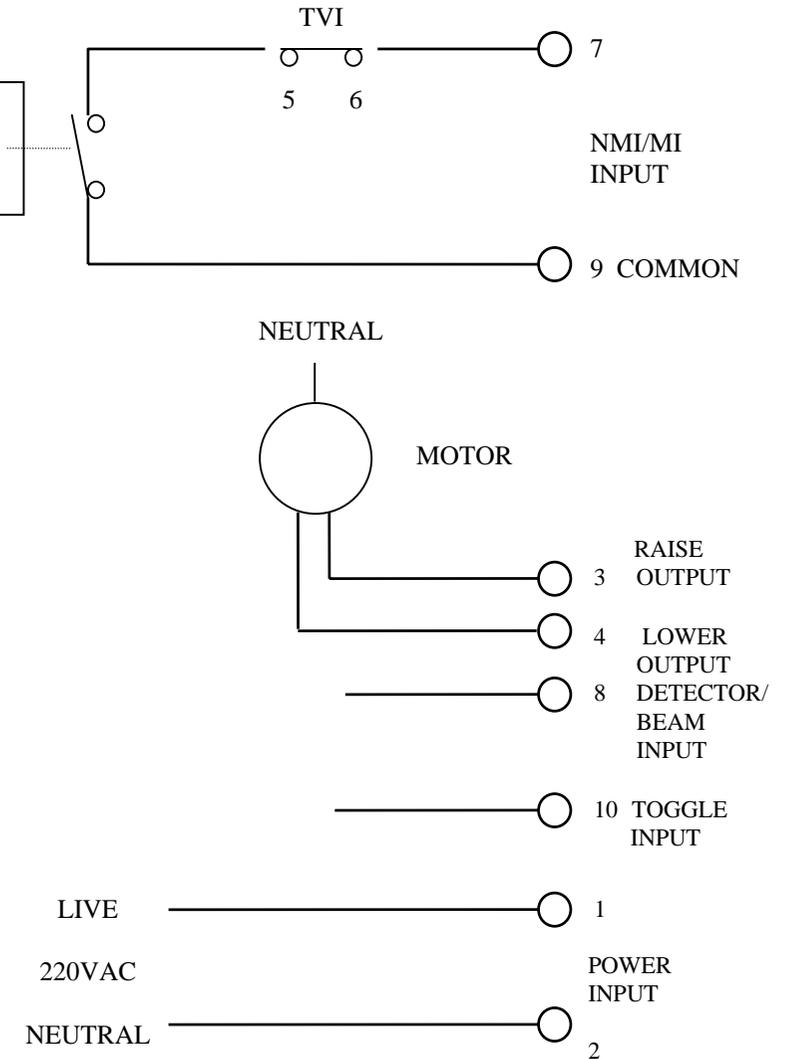
Standard features of the logic on the unit are :

- **Memory/Non Memory input.**
The Memory input feature will allow opening inputs to be memorised. This will then enable a number of vehicles to pass over the closing loop before the barrier lower output is enabled. The purpose of this feature is to enable vehicles to pass the barrier without opening and closing for each vehicle and hence allowing rapid entry or exit of vehicles.
- **Toggle input.**
The barrier can be raised and lowered from a remote pushbutton or radio receiver contact by using the toggle input. Dip switch used to enable or disable auto close.
- **Automatic/Manual mode.**
This mode allows the barrier to be manually operated for maintenance purposes.
- **Barrier raise/lower relay output.**
This output is used to control the motor which raises or lowers the barrier.
- **Ticket vend interlock output.**
This output is used to prevent tickets from being issued when the barrier is in the raised position.
- **Time out if vehicle reverses out.**
On some occasions a vehicle may raise the barrier and then reverse out. In this situation the logic will time-out (switch selectable) and automatically lower the barrier.
- **Roll-back protection.**
After a vehicle has passed the closing loop and the barrier is closing, it is possible for the vehicle to roll backwards under the closing barrier. In this situation the logic will raise the barrier again until the vehicle moves forward off the closing loop.
- **Facility for extra loop detector for opening input interlock.**
Another loop detector may be used to prevent the barrier from being raised when there is no vehicle present. This is done by placing this loop in front of the barrier and a vehicle must be present on this loop to allow opening of the barrier.
- **Facility for Free Exit loop detector.**
Another loop detector may be placed after the barrier and used to raise the barrier as a free exit option. This feature is normally used in a bi-directional lane.

TECHNICAL SPECIFICATIONS:

1. **POWER REQUIREMENT:** 200 - 260VAC 50/60Hz.
2. **NMI/MI INPUT:** This input may be activated by a potential free relay contact or open collector NPN transistor output.
This input is isolated from the logic. When held low the barrier will stay in the open position.
3. **TOGGLE INPUT:** This input may be activated by a potential free relay contact or open collector NPN transistor output.
This input is isolated from the logic.
4. **DETECTOR/BEAM INPUT:** This input may be activated by a potential free relay contact or open collector NPN transistor output. This input is isolated from the logic and is used to close the barrier.
When Dip SW 2 and 3 are used this input has a selectable off delay of 0 to 15sec in 5 second increments.
5. **RAISE/LOWER OUTPUT:** This output is a normally open relay contact rated at 5A/220VAC.
6. **TVI OUTPUT:** This output is a normally closed solid state transistor rated at 100mA/35VDC.
7. **INDICATORS:** LED indicators show barrier raised and barrier lower.
8. **CONNECTOR:** 11 Pin Connector on rear of unit.

TYPICAL WIRING DIAGRAM:



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