

# Door Control Board

## 16 Position input/relay output

# Model IRB-16

### OUTPUT CONNECTIONS

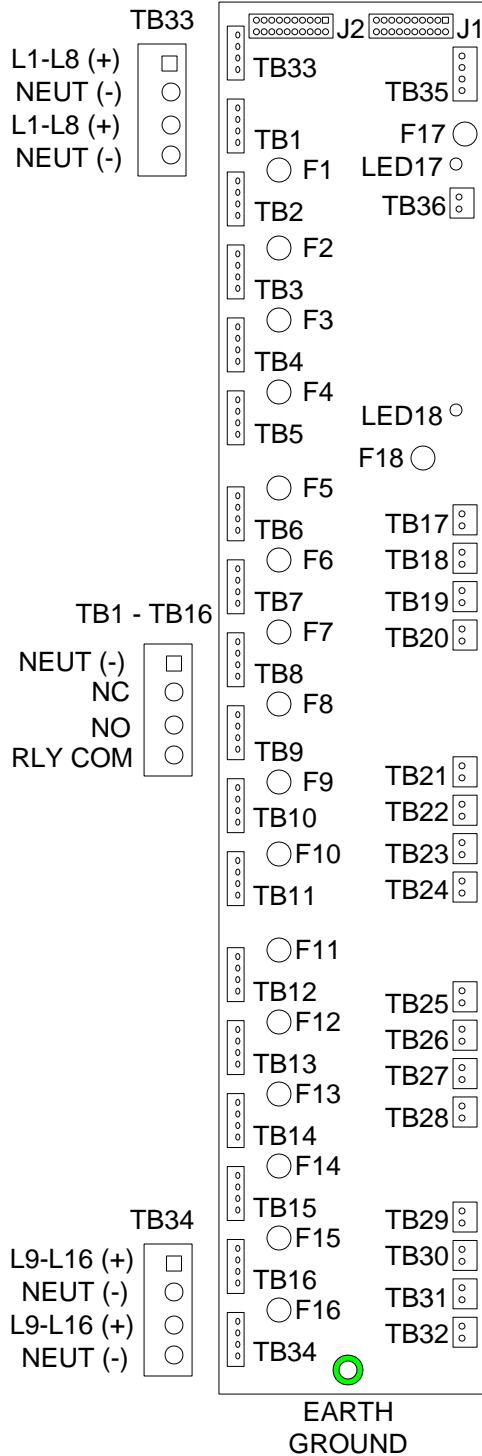
TB1-TB16 provide connections to the door relay contacts. TB33 provides bus connections for the power supply connected to the first eight door relays, and TB34 serves the same purpose for the remaining eight door relays. The two separate power input points (TB33 & TB34) allows a split bus for the relay contacts. To utilize a single bus connect the extra pair of terminals on the terminal board where the power supply is connected to terminals of the same polarity on the terminal board at the opposite end of the IRB-16 board.

To use only the dry contacts of a relay pull the associated fuse and make appropriate connections to the RLY COM, NO or NC terminals.

TB35 provides power supply connection points for the relay coils. The -DC will be connected to the control switch to pull one side of the relay coil to ground to activate the relay. An extra pair of terminals is provided to jumper the power supply to additional IRB-16 boards. F17 is a 1.0 Amp fuse to protect this power supply. LED17 is an indicator for the 24 VDC power supply.

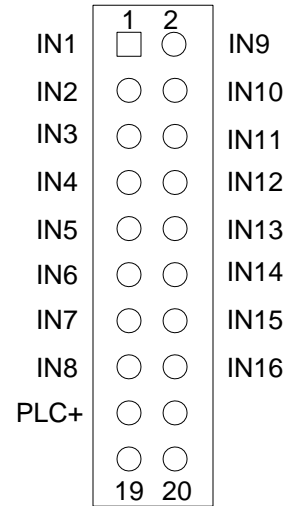
### INPUT CONNECTIONS

TB17-TB32 provide connections to the door position switches. To provide isolation of the door position switch lines from other circuitry a separate 12 volt internal power supply, derived from the 24 VDC relay coil power supply, is used to power the input diodes of the opto isolators. F18 is a 0.5 Amp fuse to protect the internal power supply. LED18 is an indicator for the internal power supply.

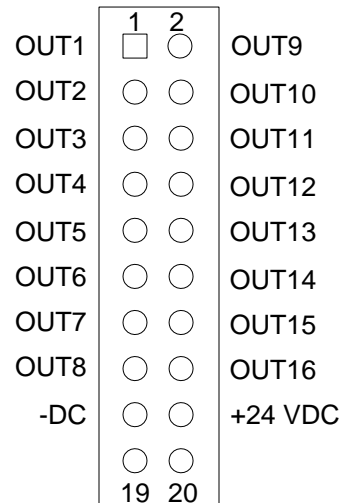


The output side of the opto isolators is powered from the power supply that provides power to the inputs of the PLC. The connection point for that power supply is via TB36.

### J1 DPS INPUT CONNECTIONS



### J2 RELAY CONTROL CONNECTIONS



The Earth Ground terminal provides a connection point that is used with optional MOVs that may be soldered into the board in holes located between the relays and the fuses.