

RLB8-DPDT- V2 Data Sheet



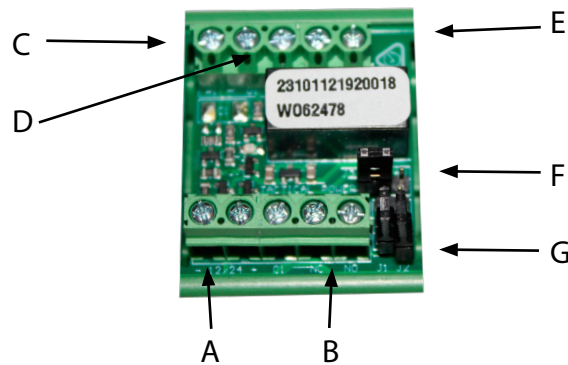
The RLB8-DP-V2 relay board from Tactical Power Products features a strip of eight (8) individual dual buffered, Double Pole / Double Throw (DPDT) Relays which share a common power rail. Equipped with a dual selectable dc input 12v or 24v via jumper header J3 (Relays may be separated from the strip for individual or group use.)

Each relay features a transistor buffered input which may be triggered by any positive DC voltage between 5vdc-30vdc or by 0vdc. (Inputs are provided for + or - trigger).

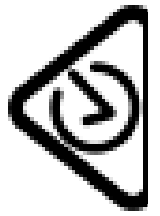
Each relay segment is provided with a common pole link J1 and J2 for each relay pole (DPDT=2 Poles) By setting this link, either +ve or -ve may be jumpered to the common of either relay pole.

SPECIFICATIONS:

- Input voltage 12 - 24Vdc programable
- DPDT relay contacts rated at 1A @ 30Vdc
- Trigger threshold : +5v to 30vdc or 0V
- Current draw 47 mA when relay is active



| Description | |
|-------------|--|
| A | 12V/24dc Input - /+- (must be constantly powered) |
| B | DP Relay Pole 1 (C1 NC NO) |
| C | - Trigger Input (0V) |
| D | + Trigger Input (5V to 12Vdc) |
| E | DP Relay Pole 2 (C2 NC NO) |
| F | 12v 24v supply voltage program link |
| G | Relay Pole 1 & 2 Common Links J1-J2 (Jumper to + or -) |



RLB8-DPDT-V2 DPDT Relays

Programming the Relay

Each relay is fitted with three jumper headers one to select operating voltage and two to program voltage to the C1 and C2 commons of the relays reducing the need to place links between positive or negative.

J1 & J2 enable each set of common contacts C1 & C2 to be programmed as:-

Voltage free is default, jumper header connected to one pin only.

Positive voltage connect Pins 1 & 2 per common max 50mA if higher current is required remove link and connect 12+ to respective C1 & C2

Negative voltage connect Pins 2 & 3 per common max 50mA if higher current is required remove link and connect 0V to respective C1 & C2

J3 is a three position SIL header located under the relay marked 12v | 24v it is used to program the supply voltage which can be either 12vdc or 24vdc.

For 12vdc place header shunt over 12V and centre pin.

For 24vdc place header shunt over 24V and centre pin

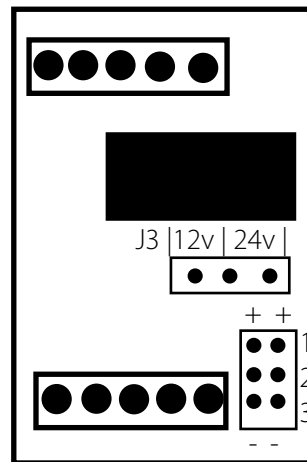
NB when used in a strip of 8 power needs only to be connected to one voltage input due to the voltage bus located on the top layer of the PCB.

In the event you need to operate relays from both 12 vdc and 24vdc say four of each, remove small slot of DS tape and then cut both bus tracks located on each outer top edge of the board adjacent to the routing slot of relay four.

Of course if there was a different number required select the desired number of relays and then repeat the step above.

NB This product is not fitted with reverse polarity protection on the DC input, incorrect termination to the power supply will result in damage and void warranty.

-Trig+ C2 NO NC



J3 12v | 24v
12v link 1&2
24v link 2&3
J1 link 1&2= + C1
J1 link 2&3= - C1
J2 link 1&2= + C2
J2 link 2&3= - C2

-12/24+ C1 NO NC J1 J2

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