# OSA ELECTRONICS 6CH RELAY BOARD FOR RASPBERRY PI

Features

- Omron SPST Slim Power Relays
- High switching capability 5 A (250 VAC and 30 VDC), and high contact reliability by crossbar-twin contact
- Low power consumption: 150mA
- Fully isolated using industrial Vishay Optocouplers
- LED indicator on each relay for on/off status and board Power ON status
- Onboard I2C connector for peripherals
- Up to 8 boards in chain, address selectable
- Compatible with Raspberry Pi and others with the same GPIO
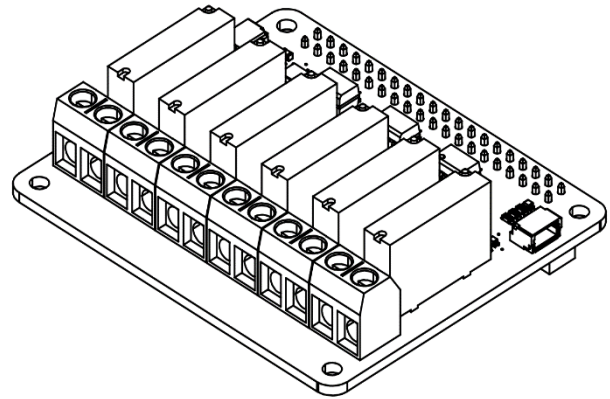
| Specifications		
Model		**RLB0665N**
DC Input Voltage	V_{DC}	5V
Connectivity	-	2 x JST SR for I^{2}C , 40 Pin GPIO Raspberry Pi Compatible
Output Terminals	-	6 x 5.08mm Terminal Block - 1.5mm²
Max. switching voltage	-	277 VAC, 125 VDC
Max. switching current	A	5 A
Resistive Load	-	5 A at 250 VAC / 5 A at 30 VDC
Inductive Load	-	2 A at 250 VAC / 2 A at 30 VDC
Durability	-	100,000 operations min. (5 A at 250 VAC, Resistive load)
Weight	g	30g
Size WxHxD	mm	65 x 56 x 30 mm
Warranty	yrs	Two years

I2C Address Selection

By default, all the jumpers located in the bottom of the board are closed tying to ground the I2C address selection pins. Cut them in order to change the board default I2C address (0x20).
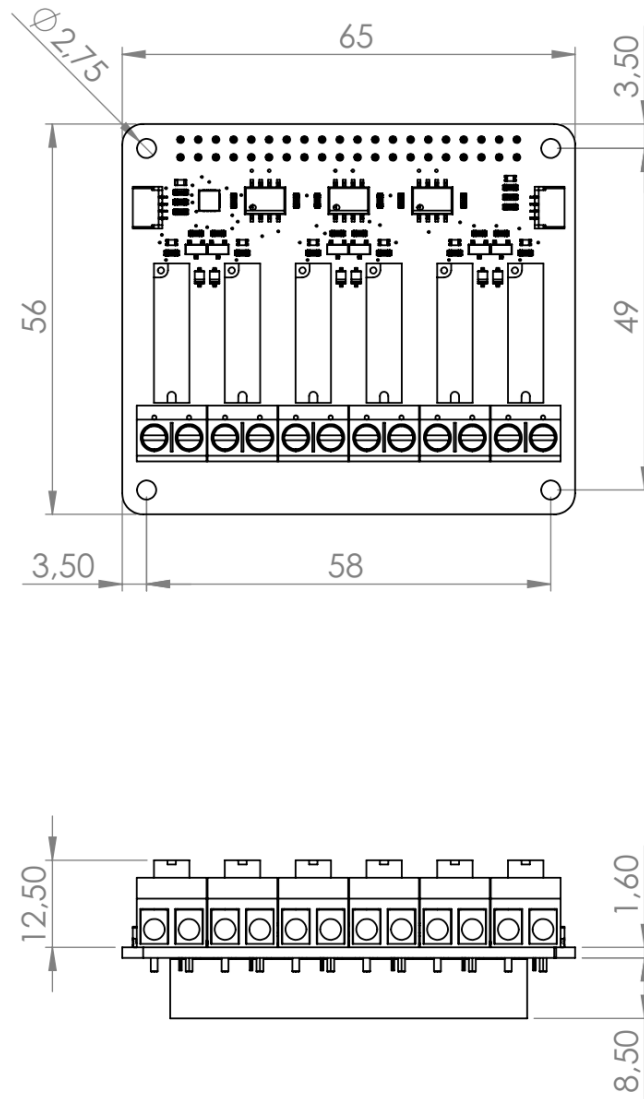
Cut the jumper wire to set "1".

You can connect up to 8 boards together by changing their address. Remember to supply 5V to each board when cascading them.

The Qwiic connector is available to plug boards between them using the same I2C port.
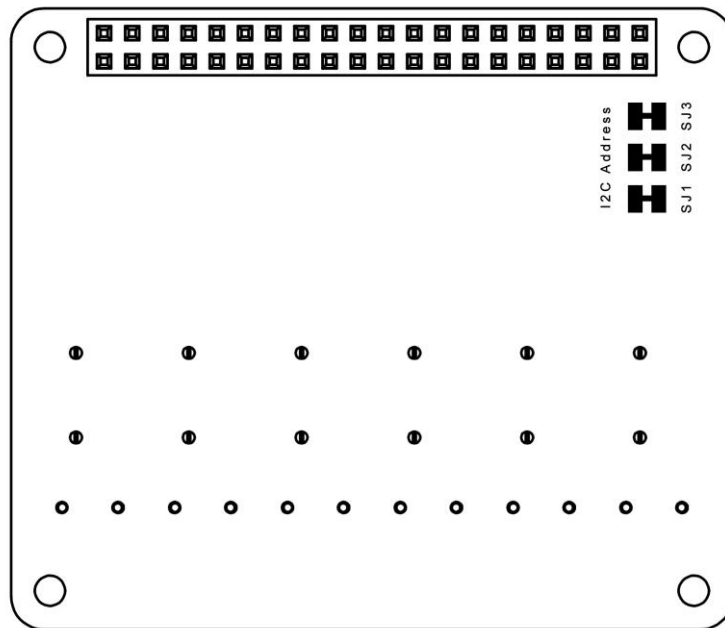
RLB0665N I2C Address Table			
SJ3	SJ2	SJ1	7-bit Write Address
0	0	0	0x20 (Default)
0	0	1	0x21
0	1	0	0x22
0	1	1	0x23
1	0	0	0x24
1	0	1	0x25
1	1	0	0x26
1	1	1	0x27

Drawing

*All dimensions in mm