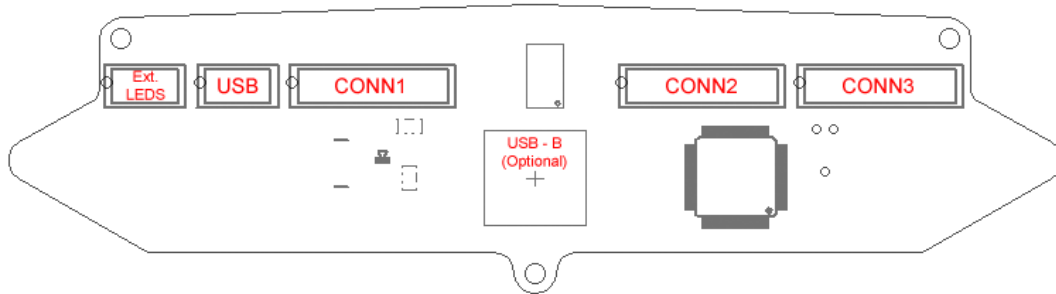


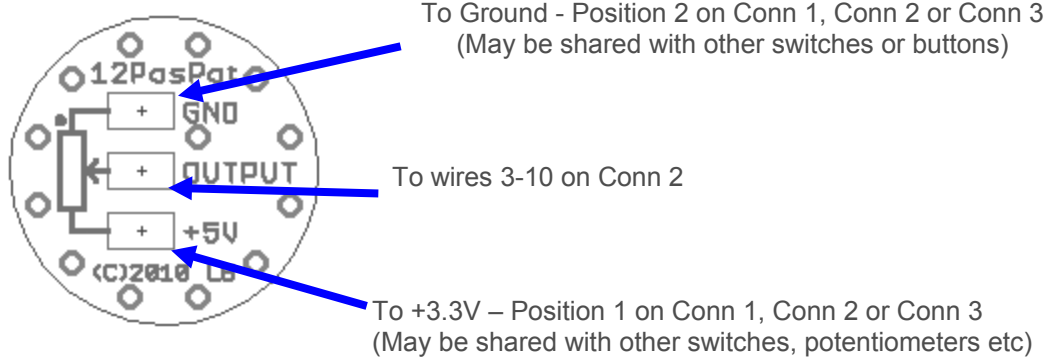
# SLI-F1 Wiring

For Firmware V1.13

## Rear View

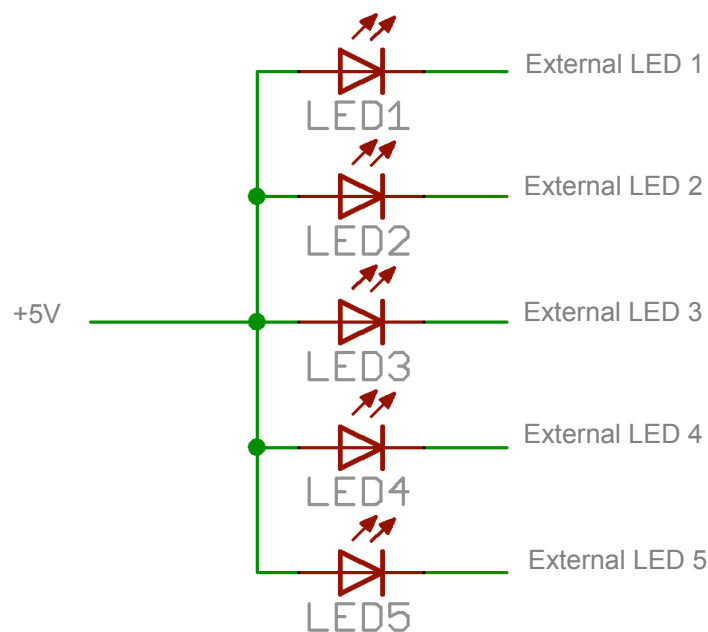
















## 12 Position Rotary Switches































## Connecting External LEDs







Up to 5 external LEDs can be connected to SLI-F1. Together with 6 information LEDs on the SLI-F1 they can be used to display various warning or information messages. External LED connections have internal current limiting to 15mA so limiting resistor is not necessary.









No.	Colour		CONNECTOR 1
▶ 1		Brown	+3.3V output for potentiometers, rotary switches or sensors
2		Red	Ground (Shared among all switches, buttons and potentiometers)
3		Orange	Button 1
4		Yellow	Button 2
5		Green	Button 3
6		Blue	Button 4
7		Violet	Button 5
8		Grey	Button 6
9		White	Button 7
10		Black	Button 8
11		Brown	Button 9
12		Red	Button 10
13		Orange	Button 11
14		Yellow	Button 12

No.	Colour		CONNECTOR 2
▶ 1		Brown	+3.3V output for potentiometers, rotary switches or sensors
2		Red	Ground (Shared among all switches, buttons and potentiometers)
3		Orange	Rotary Switch 1
4		Yellow	Rotary Switch 2
5		Green	Rotary Switch 3
6		Blue	Rotary Switch 4
7		Violet	Rotary Switch 5
8		Grey	Rotary Switch 6
9		White	Rotary Switch 7
10		Black	Rotary Switch 8 ( Activates Buttons 13-24)
11		Brown	Analogue Input 1
12		Red	*Unused in this firmware version*
13		Orange	*Unused in this firmware version*
14		Yellow	*Unused in this firmware version*

No.	Colour		CONNECTOR 3
▶ 1		Brown	+3.3V output for potentiometers, rotary switches or sensors
2		Red	Ground (Shared among all switches, buttons and potentiometers)
3		Orange	Input 25 – Encoder 1 (1:2 mode)
4		Yellow	Input 26 – Encoder 1 (1:2 mode)
5		Green	Input 27 – Encoder 2 (1:2 mode)
6		Blue	Input 28 – Encoder 2 (1:2 mode)
7		Violet	Input 29 – Encoder 3 (1:2 mode)
8		Grey	Input 30 – Encoder 3 (1:2 mode)
9		White	Button 31
10		Black	Button 32
11		Brown	*Unused in this firmware version*
12		Red	*Unused in this firmware version*
13		Orange	*Unused in this firmware version*
14		Yellow	*Unused in this firmware version*

No.	Colour		External LED Connector
▶ 1		Green	Max +5V (shared among all external LEDs)
2		Blue	External LED 1
3		Violet	External LED 2
4		Grey	External LED 3
5		White	External LED 4
6		Black	External LED 5

No.	Colour		Alternative USB Connector
▶ 1		Green	USB D+ (standard USB cable wire <i>green</i> )
2		Blue	USB D- (standard USB cable wire <i>white</i> )
3		Violet	USB GND (standard USB cable wire <i>black</i> ) and USB cable shield (screen)
4		Grey	
5		White	USB +5V (standard USB cable wire <i>red</i> )
6		Black	