

# SA6

## 6 Way SPI Signal Splitter

SPI

### Features

- 1 group SPI signal input, 6 group SPI signal output.
- Amplification and expansion of SPI (TTL) signals.
- Used with SPI controller, applied to synchronous control multiple SPI digital RGB or RGBW LED strips.

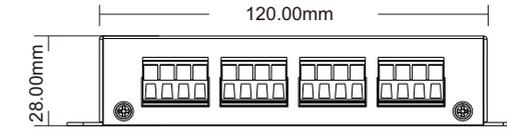
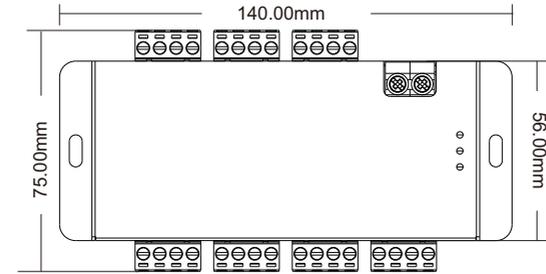
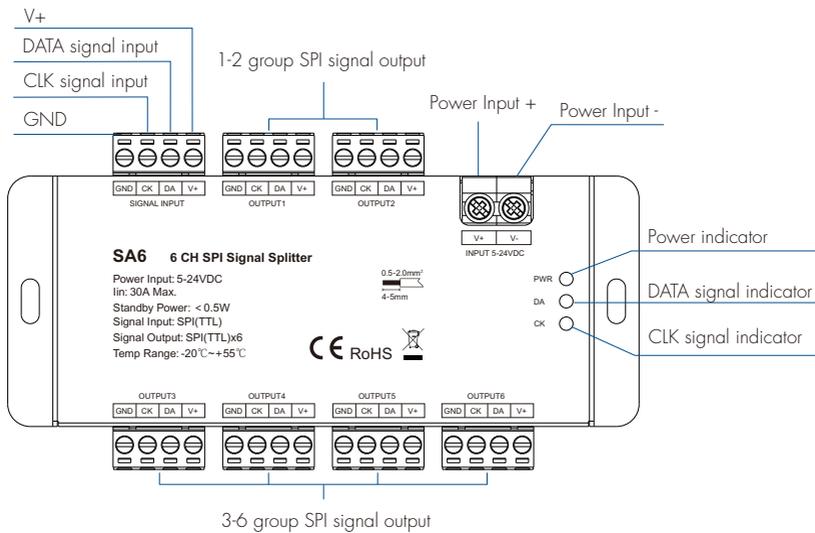


CE RoHS

### Technical Parameters

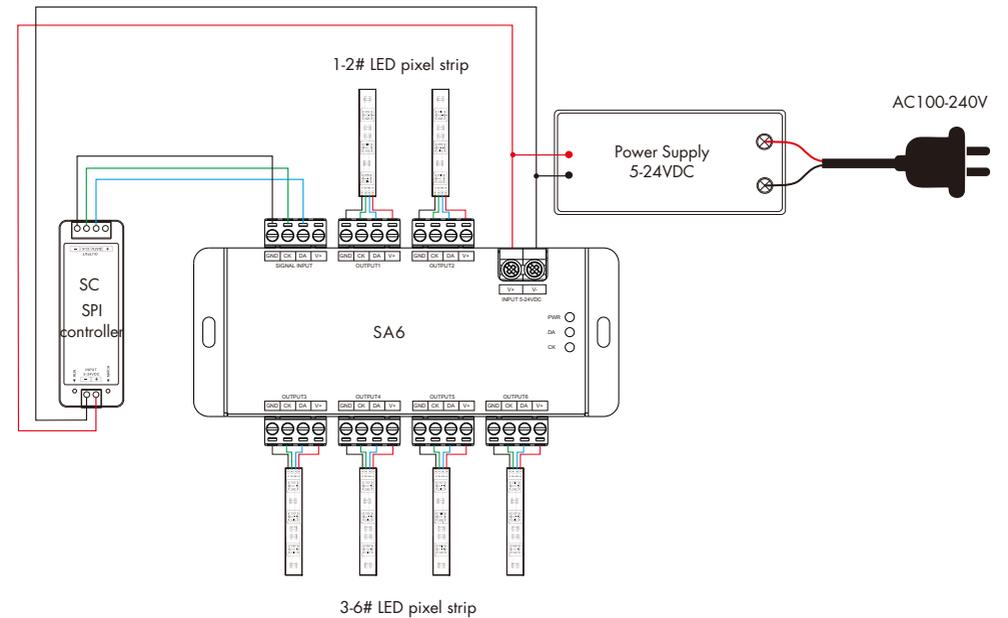
Input and Output	Environment	Safety and EMC
Input voltage	5-24VDC	Operation temperature Ta: -20°C ~ +55°C
Input Current	Max. 30A	Case temperature (Max.) Tc: +65°C
Standby power	< 0.5W	IP rating IP20
Input signal	1 group SPI (TTL) signal	Safety standard EN 61347-1/-2
Output signal	6 group SPI (TTL) signals	Certification CE RoHS
	<b>Package</b>	<b>Warranty and Protection</b>
	Size L145 x W75 x H35mm	Warranty 5 years
	Gross weight 0.26kg	Protection Reverse polarity

### Mechanical Structures and Installations

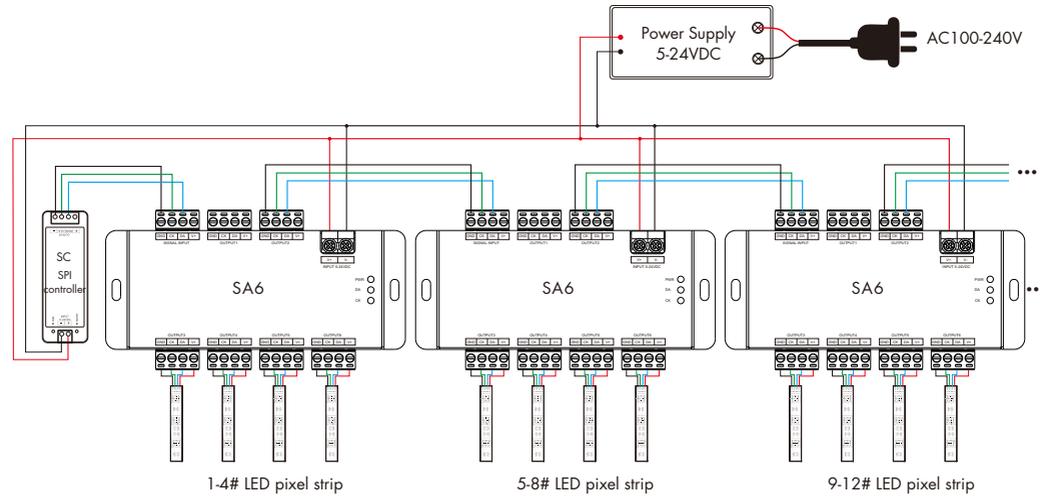


### Wiring Diagram

- Connect with one SA6



- Connect with more than one SA6



**Note:**

1. The SA6 signal splitter is powered up, the power indicator (PWR) is always light up red.
2. When the DATA signal is received, DATA signal indicator (DA) blinks blue continuously. When the signal is disconnected, the indicator does not light up.
3. When the CLK signal is received, CLK signal indicator (CK) blinks blue continuously. When the signal is disconnected, the indicator does not light up.
4. If the SPI LED pixel strip is single-wire control, the DATA and CLK output is same, one SPI output port can connect 2 LED strips, each SA6 can connect up to 12 LED strips.
5. If the SPI LED pixel strip is two-wire control, one SPI output port connect 1 LED strips, each SA6 connect up to 6 LED strips.
6. When the load of the SPI LED pixel light strip exceeds 30A, the LED pixel strip needs to be powered by other power supplies. Only DATA/CLK and GND cables are connected between the signal splitter and the LED pixel strip.

- Load current > 30A

