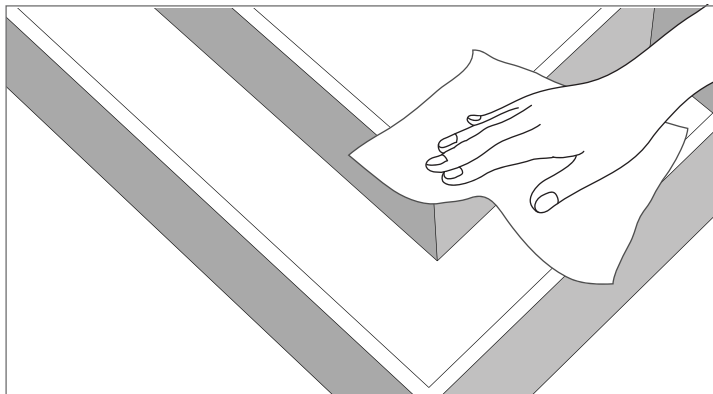


INSTALLATION GUIDE

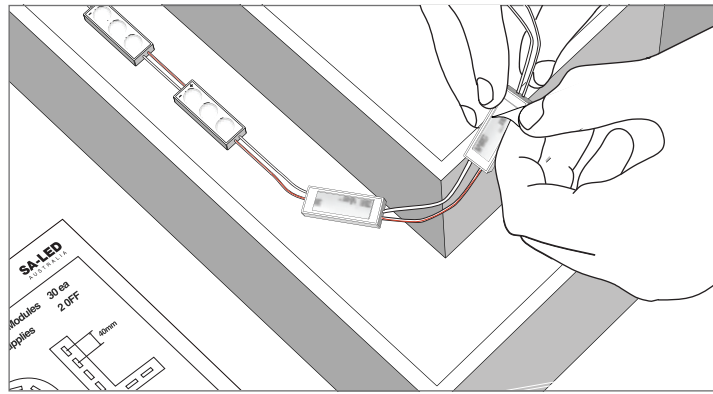
L-Mini Series

WARNING

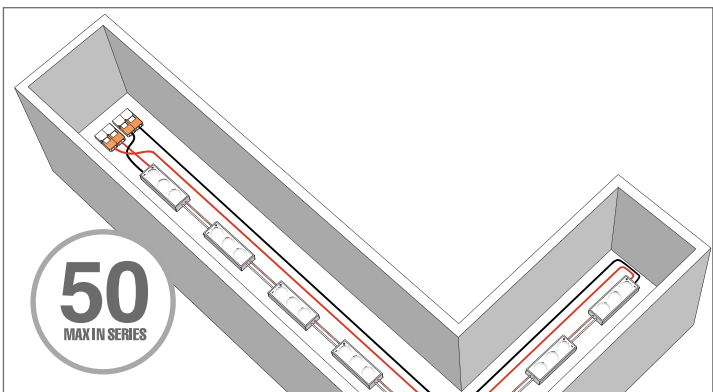
Electrical shock risk. Do not modify these products, as any alterations may void the warranty and compromise safety. Installation requires knowledge of electrical sign systems; if you are not qualified, please consult a certified electrician. Always disconnect the power supply before installing the product. Ensure the correct driver (12V or 24V) and adequate maximum wattage are used. Adhere to the specified guidelines for optimal results.



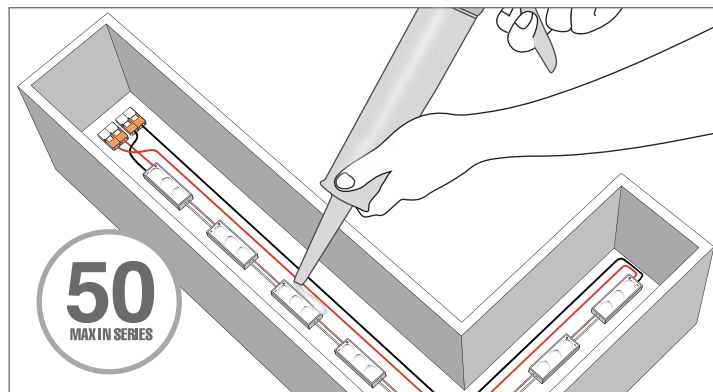
1 Clean the inside of your channel letter or lightbox, ensuring it is free from any debris or dirt.



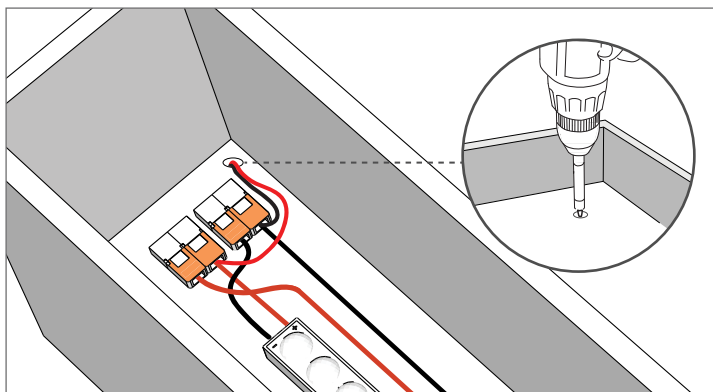
2 Remove the tape from the back of the LEDs and stick them in place according to the provided layout, including the appropriate module pitch (refer to Figure 1 on page 2).



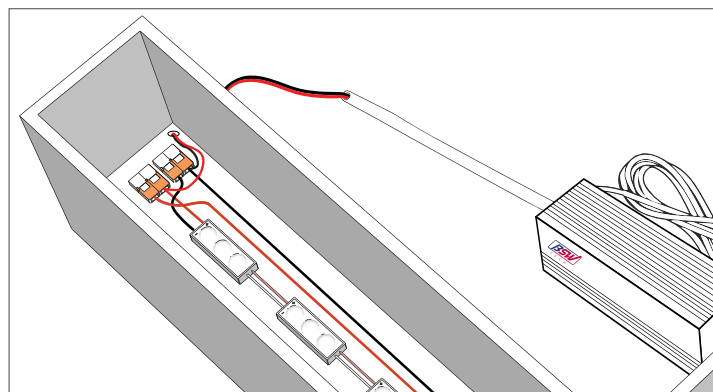
3 Ensure modules are connected in series or parallel (refer to Figure 2 on page 2). Avoid exceeding the maximum module count to prevent voltage drops.



4 WAGO connectors enable quick wiring of LEDs in series. Secure LEDs with silicone glue.



5 Drill holes along the edge of the channel letter or lightbox connect to the power supply. Wire both ends of LED modules to the power supply (refer to page 2).



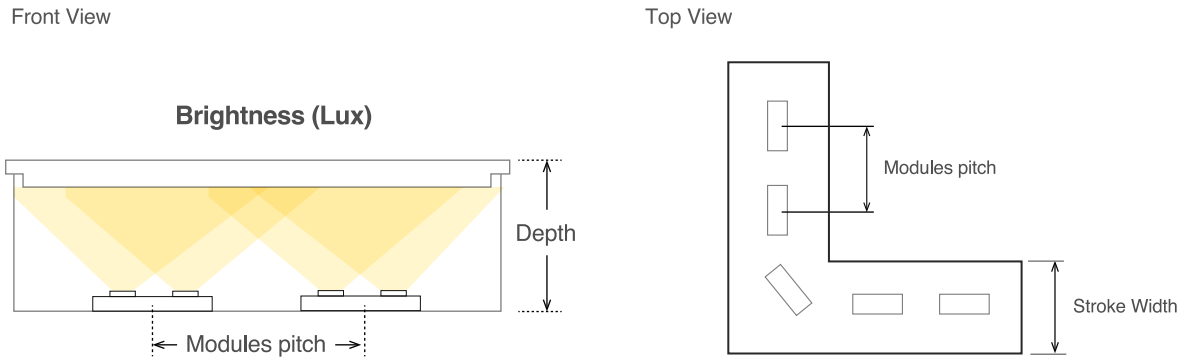
6 For multiple series, connect them in parallel to avoid voltage drop and ensure even brightness.

INSTALLATION GUIDE

L-Mini Series

Figure 1. LED Modules pitch guide.

We recommend using channel letters with the following depths based on the LED module specifications.

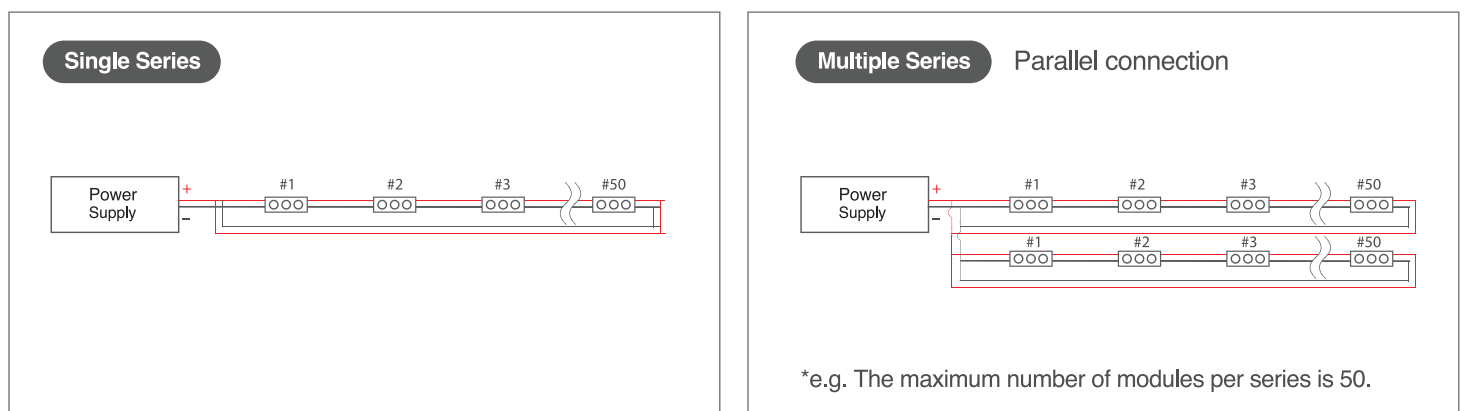


Product	Depth	Stroke Width	Module Pitch (*CTC)
L-MINI 1 LED	40mm - 49mm	Over 15mm	40mm - 49mm
	50mm - 79mm	<= 25mm	50mm
L-MINI 2 LED	40mm - 49mm	Over 15mm	40mm - 49mm
	50mm - 79mm	<= 25mm	50mm
L-MINI 3 LED	40mm - 49mm	Over 15mm	40mm - 49mm
	50mm - 79mm	<= 25mm	50mm

*Center to Centre

Figure 2. Wiring Diagram

Check Polarity : All connections must be **RED-TO-RED (+)** and **BLACK-TO-BLACK(-)**. Reverse polarity connections may damage the LEDs and will void the product warranty.



Do not exceed the maximum number of LED modules per series (refer to each item's spec sheet for specific numbers). We recommend wiring both ends of LED modules to the power supply.

If you require **multiple modules**, they must be wired in parallel as a safe electrical operation mode. **Serial connection is not recommended**, as unbalanced voltage drops can lead to hazardous overload, potentially damaging the LED modules and causing uneven brightness

*e.g. The maximum number of modules per series is 50.