

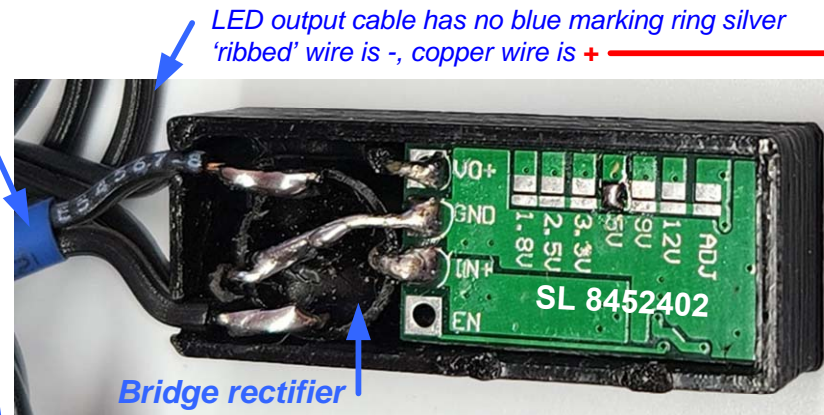
How to wire the SL 8453018 Micro Size LED controller in case 18 in cable AC DC DCC in DC out 2A 1.8 to 24V with 3M mounting pad.

The **SL 8453018** comes wired and ready to use for white LEDs. The SL Micro Size LED controller can be used Input voltage 4.5 to 24 volts DC. The **SL 8453018** has a wired full wave 2A bridge rectifier for use with AC, DC, DCC or track power up to 24 Volts. Output voltage can be adjusted, use the pot located in an access hole on the front of the case for accurate output voltage adjustment. The **SL 8452024** regulator inside the case is wired to the bridge and input/output 18 inch cables. The output is factory adjusted to 3.05 Volts at 2 amps max. Note the 5V output selection is soldered and the ADJ cut trace is NOT cut. This allows the pot to adjust the output voltage from 0.9 to 4.2 volts. Hint: for adding red LEDs use a dropping resistor, contact us for details. Case size: 34mm L x 13mm W x 9.25mm H (1.34"L x 0.5"W x 0.37"H).

AC/DC Track power in cable has a blue marking ring

1. Input Voltage: DC 4.5-24V
2. Output Voltage: integration adjustable and fixed output, back side can choose fixed output voltage
3. Adjustable Range: 0.9-4.2V, fixed voltage (1.8V 2.5V 3.3V 5V 9V 12V fixed options set to 5V)
Output sent at factory to 3.05V (VD+)
4. Output Current: A (max), actual testing input 6V output 2A
5. Transform Efficiency: 97.5%(max) (6.5 to 5V 0.7A)
6. Switch Frequency: 500KHz
7. Output Ripple Wave: 20mV (12V to 5V 3A) 20m band width
8. Operating Voltage: -40 Celsius-85 Celsius
9. Output Overvoltage Protection: no
10. Static Current: 0.85MA
11. Load Adjust Rate: ±1%
12. Voltage Adjust Rate: ±0.5%
13. Dynamic Response Speed: 200uS
14. Output Short Circuit Protection: **yes**
15. Input Transposition Protection: **yes**
16. EN Enable Control: yes (ground to stop output)
17. Connecting Type: 2ea 18" cables
18. ~ ~ Bridge Input 18 inch 24AWG cable
19. + - Bridge out to **GND IN+**
20. VD+ **GND** Output 18 inch 24AWG cable
21. Soldering Hole Space: 2.54mm

File Name: SL 8453018 Micro Size LED controller_wiring_diagram_v5.vsd

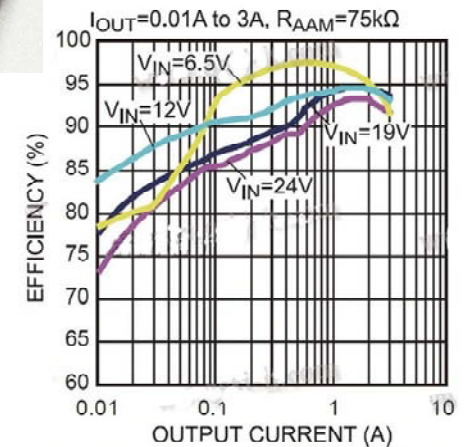


SL 8453018 Micro Size LED wired controller w case bottom off.



SL 8453018 Micro Size LED wired controller top CU view

SL 8453018 Micro Size LED wired controller top view



LED output adjustment POT, factory set to 3.05V. Adjust from .9 to 4.2 Volts

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www.SWL4.com 310-622-4431 info@ShourtLine.com