

## A New, Low Cost, Easier Way to Power & Control all Model Railroad Devices

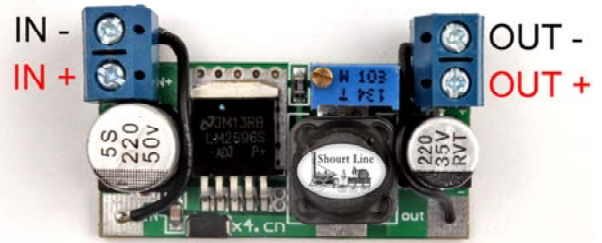
The Shourt Line Precision Train Throttle, LED and device controller is perfect for lights, LEDs, motors, crossing guards, smokers, signals, servos, sound boards, strobes, fans, locos, auto reversing modules, accessories or any battery operated device.

**All Models feature:** adjustable DC output voltage 1.2 to 30 VDC @ 3 Amp / 15 watt Max., Short Circuit & Over Temperature Protected, up to 94% efficient and 6 times more efficient than any other device available today.

### 2 Models use DC input voltage or AC or DCC when a bridge rectifier added



SL 8452403 \$ 6.29 w/Solder Terminals

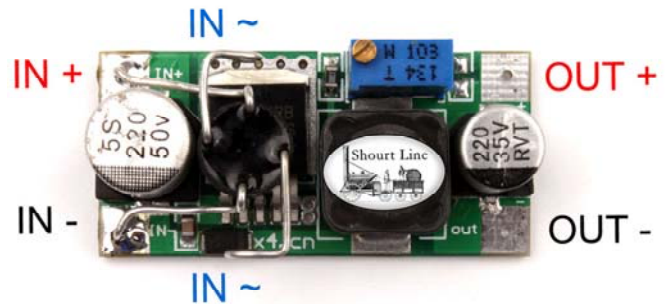


SL 8453403 \$ 10.95 Screw terminals

### 2 Models use DC, AC or DCC & feature a bridge rectifier

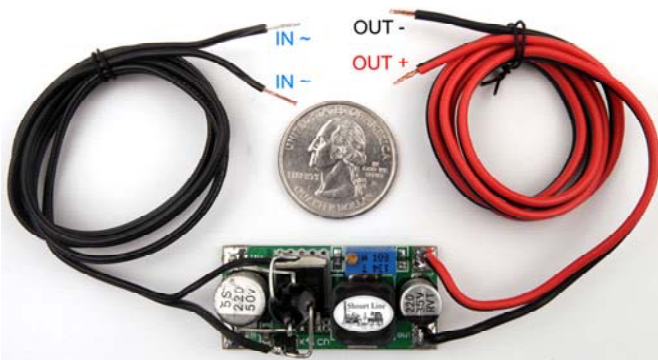


SL 8552403 \$39.95 Weatherproof & Screw Terminals

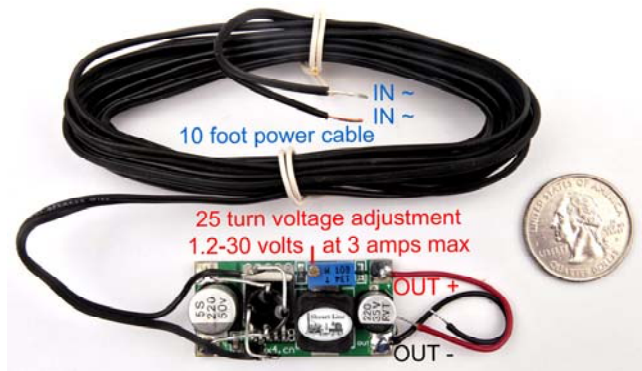


SL 8453003 \$ 8.49 Solder Connections

### 2 Models use DC, AC or DCC input, have a bridge rectifier & are pre-wired



SL 8453203 \$ 9.95 3M mounting pad + 24 in. black input and red/black output cables



SL 8453303 \$ 9.95 3M mounting pad + 10' black input & 3" red/black output cables



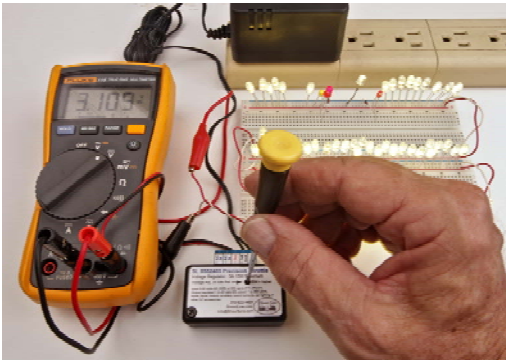
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# A New, Low Cost, Easier, Way to Power & Control all Model Railroad Devices With the ShourtLine.com Precision Train Throttle & LED controllers

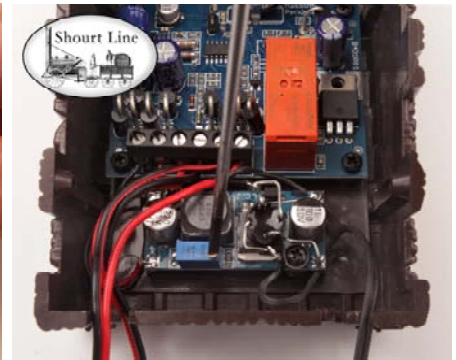
All models feature adjustable output voltage by a 25 turn pot for setting a precise voltage. The throttle can be used for speed control, dimming lights or smoke adjustment and dozens of other users. Easily power 1 to 300 LEDs wired in parallel. Parallel wiring has the advantage of easy wiring and changing the number of LEDs without adjusting the circuit making it ideal for train lighting. The Controllers can also be used to power trolleys, locos, automatic reversing modules, motors, smokers, bulbs, LEDs, sound boards and the elimination of batteries in battery power devices on trains or on the layout.



Power 1 to 300 LEDs in parallel and dim to desired brightness with 25 turn adjustment pot. Power bulbs or LEDs with 1/6 the power of any other device. This is the only device available that works efficiently at either low and high track voltage



Power motors, gravel loaders, windmills, water wheels, radar dishes, trolleys, locos or any motorized device and set the speed with the precision 25 turn speed control. Power with 92% efficiency from track, battery or any power source.



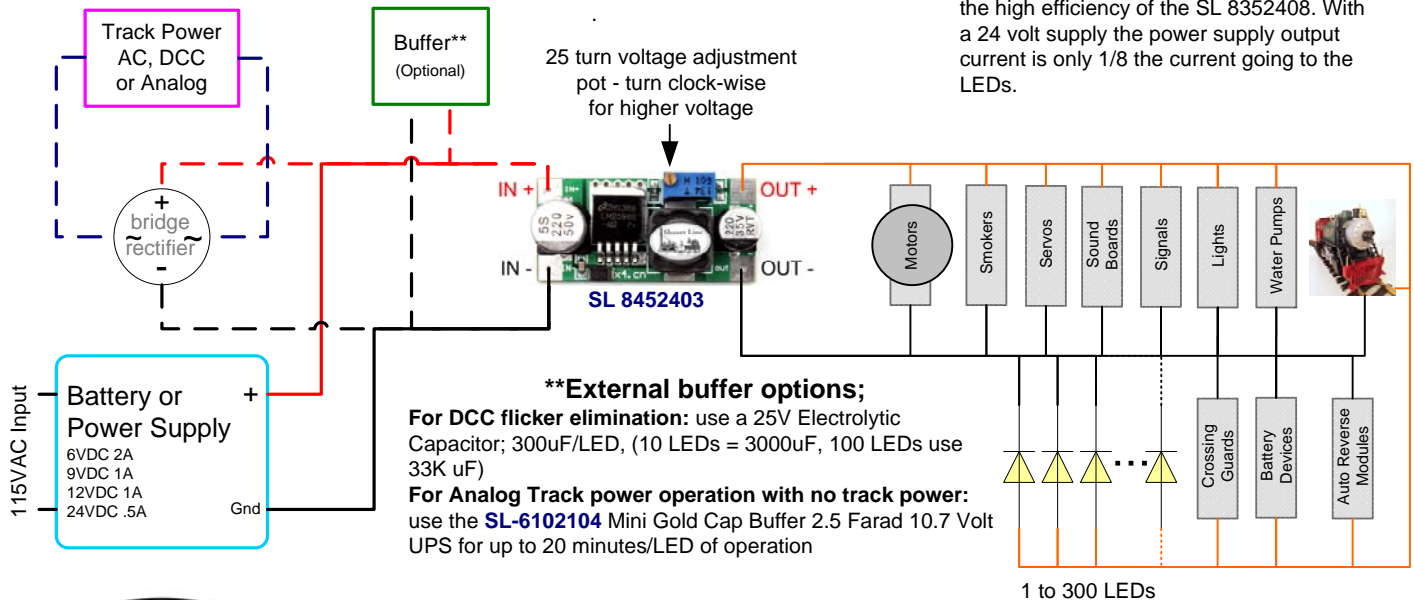
Power automatic reversing modules with the precision 25 turn speed control. Set the speed and the controller will maintain the speed regardless of input voltage variation, power from DCC track or any other power source.

## Control All Model Railroad Devices with any of our Precision Train Throttle & LED controllers

Optionally Power from Track, or AC Power Supply Using a bridge rectifier.

A flicker free buffer is built into every controller, use an external buffer for more than 6 LEDs

Note that with a 9 volt DC supply the current out of the power supply is about 1/3 the current going through the LEDs because of the high efficiency of the SL 8352408. With a 24 volt supply the power supply output current is only 1/8 the current going to the LEDs.



**Shourt Line by Soft Works Ltd**

Made in the USA by the Shourt Line

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