

Thank you for purchasing a TS series light controller kit. By design, all TS Series controllers are built for ease of use and years of trouble free operation and enjoyment. While manufactured in the USA, all controller kits are inspected and tested prior to shipment for reliability. Please refer to the following information on your TS series controller.

What's included with each kit:

- 1x - TS Series Controller
- 1x - Power Cord - *(May vary slightly by color and/or length)*
- 4x - Adhesive Mounting Posts

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GENERAL SPECIFICATIONS (**)

<u>Dimensions:</u>	Circuit Board Size TS8 Series - 3.5" x 4"
<u>AC Power:</u>	120VAC - Fused - 5A Max.
<u>Fuse:</u>	5x20mm 250V/5A
<u>Wire Size:</u>	16 - 22 AWG - Recommended
<u>Output Power:</u>	120VAC / 100W Max. - Each Channel (^)
<u>Time Delay:</u>	

Pro Sequence - .4s "all on" after Pre-Stage & Stage.

Sportsman Sequence - .5s countdown 3,2,1, after Pre-Stage & Stage.

Switch Inputs: Dry contact N.O. / N.C. - Low voltage

^Note: Output power is compatible with both L.E.D. and incandescent lighting.
NOT RECOMMENDED FOR INDUCTIVE LOADS.

**Note: General specifications are subject to change without notice.

INSTALLATION & SAFETY TIPS

1. **Warning!** - Never handle controller while powered on.
2. Do not install in damp, or wet environments.
3. Only replace fuse with equivalent size and rating.
4. Remove power for bulb replacement and/or servicing of any type.
5. Do not overload outputs beyond maximum rated specification - 100 Watts.
6. When connecting more than one incandescent bulb to a single output, divide the desired bulb wattage by 100 Watts. The result will be the number of bulbs of the desired wattage that can be used on a single output.

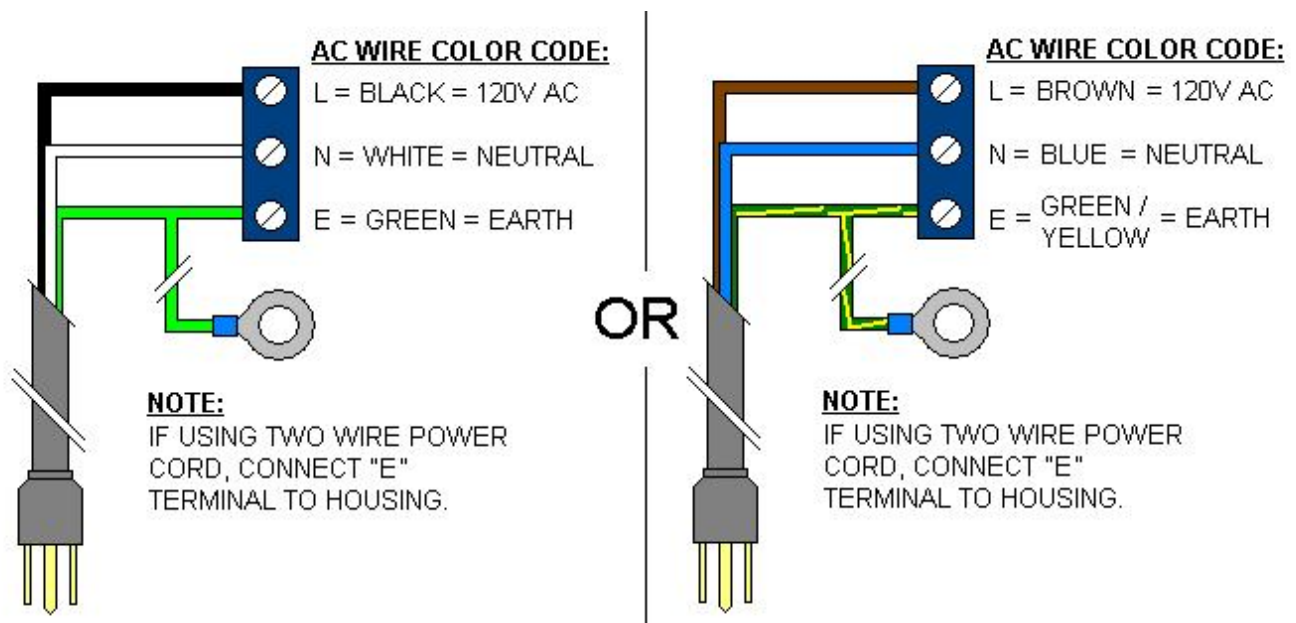
Example:

How many 40 Watt bulbs can I connect to a single output rated at 100 Watts?

$$100 \text{ Watts} / 40 \text{ Watts} = 2.5 \sim 2x - 40 \text{ Watt bulbs}$$

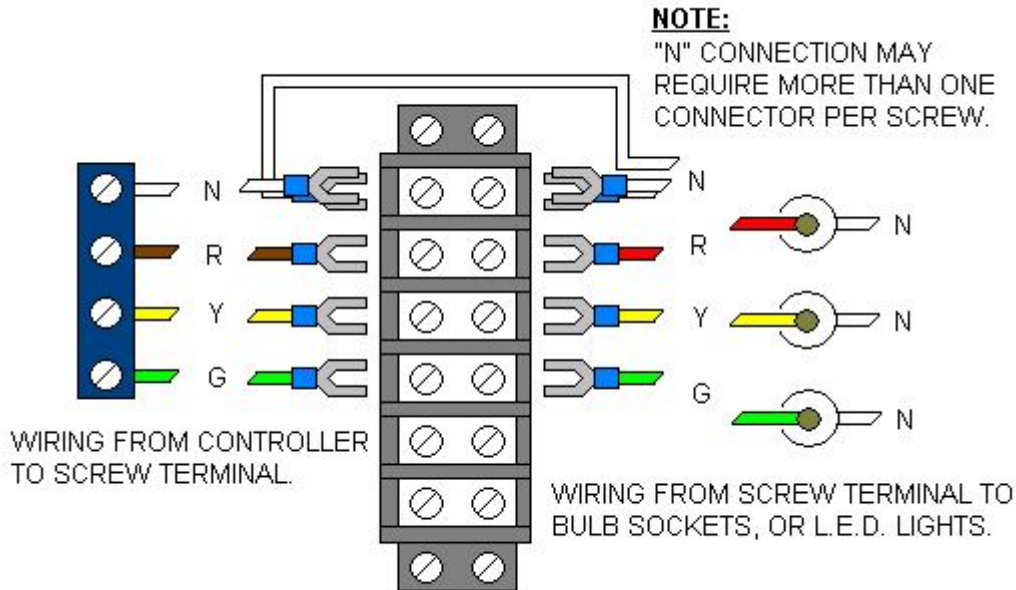
The number of 40 Watt bulbs that can be connected to a single output without overload is 2.

7. For AC power connection, follow the wiring diagram below.



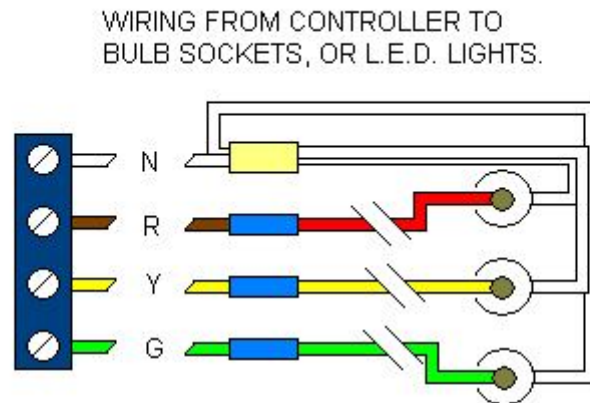
Caution!: If you need assistance, please consult a qualified electrician.

8. If your signal is equipped with a screw-terminal block, you may reference the following diagram.



Caution! If you need assistance, please consult a qualified electrician.

9. If your signal is not equipped with a screw-terminal block, you may reference the following diagram.







NOTE:

IT IS RECOMMENDED TO WRAP ALL CONNECTIONS INDIVIDUALLY WITH ELECTRICIANS TAPE, ONCE COMPLETED.

CONTROLLER SWITCH SETTINGS

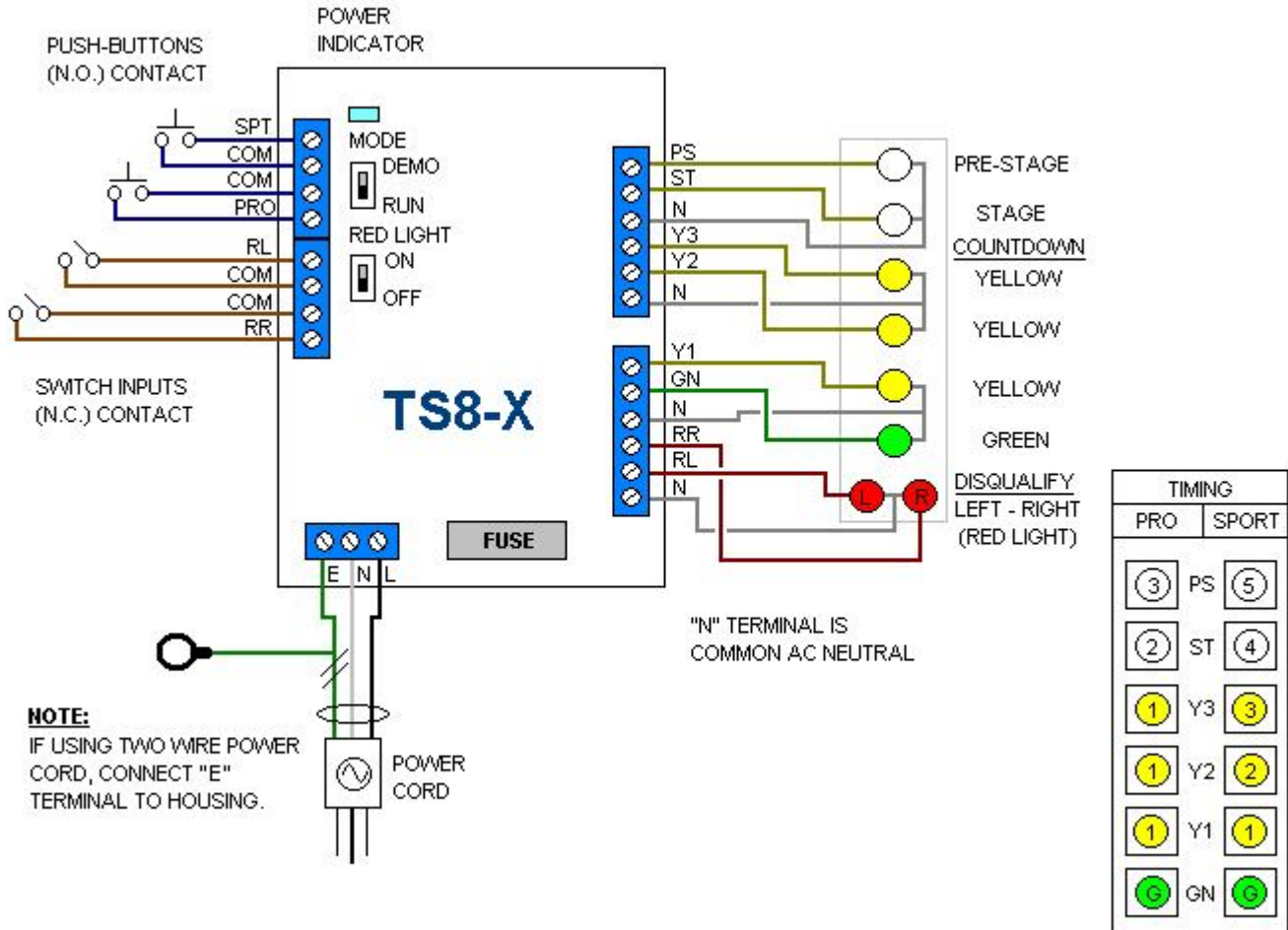
TS8-X Switch Settings:

	MODE DEMO MODE Displays 3 sequences; power-on light test, sportsman timing, and pro timing, between pre-stage & stage sequences. (<i>Factory Default</i>)
	MODE RUN MODE Sportsman sequence, or pro sequence can be triggered via external momentary pushbuttons. (N.O. contact) Sequence will cycle once, each time either button is pressed.
	RED LIGHT RED LIGHT = ON (DISQUALIFY) Enables left & right red light inputs, "RL" & "RR". (N.C. contact) Triggers corresponding red light, if either, or both inputs are interrupted during sportsman, or pro sequence.
	RED LIGHT RED LIGHT = OFF Disables left & right red light inputs "RL" & "RR". Both red lights will be disabled, will remain off during sportsman, or pro sequence.

Warning! SHOCK HAZARD! DO NOT HANDLE CONTROLLER WHILE POWERED ON.

Application: TS8-X Drag Racing Xmas Tree

Caution! If you need assistance, please consult a qualified electrician.



Warning! SHOCK HAZARD! DO NOT HANDLE CONTROLLER WHILE POWERED ON.

SPECIFICATIONS:

Dimensions: 3.5" x 4" - Circuit Board Size

AC Power: 120VAC / 5A Max. - Fused

Wire Size: 16 - 22 AWG - Recommended

Output Power: 120VAC / 100W Max. - Each Channel (^)

Timing: Pro Sequence - .4s "all on" after Pre-Stage & Stage.

Sportsman Sequence - .5s countdown 3,2,1, after Pre-Stage & Stage.

Note: Output power is compatible with both L.E.D. and incandescent lighting.
NOT RECOMMENDED FOR INDUCTIVE LOADS.

WARRANTY / RETURN FORM

MODEL: ___TS10/T ___TS12/P OTHER_____ PURCHASE DATE: _____
(Please Specify Model)

90 - DAY LIMITED WARRANTY

All TS series are warranted against manufacturing/workmanship defects for a period of 90 days from date of purchase. Any TS series controller that is used for other than the purpose intended, resulting in damage, personal or property, is the rightful owners responsibility. This warranty does not cover, improper installation /application, modification, misuse, abuse, power surge, brown outs, lightning strikes, and any other "act of god" resulting in damage, whether personal or property. TS series controllers are designed for indoor and private use only.

Return Policy:

TS Series controllers returned for refund, or repair, without proof of purchase will not be honored under warranty. TS series controllers under warranty will be repaired/replaced, at the discretion of the manufacturer, as necessary. Any TS series controller returned for repair after warranty period, "out of warranty" will be repaired at a flat rate cost, and will be warranted for a period of 30 days.

Send Returns to: Brent Anderson
 Attn: TS Controls
 2725 Castleton Ave.
 Toledo, OH 43613
 Email: ts.controls@yahoo.com

Directions: Complete the requested information below.

Name: _____

Address: _____

City-State-Zip: _____

Phone#: (_____) _____

E-mail (optional): _____

Reason for return / description of failure / problem. (Please Check) Repair_____ Refund_____
(See Return Policy)

