



# TRAC-MASTER®

## Current Limiting Pendant Stem Kits For T Series, TU Series and R Series Trac Systems **T90CLF and T91CLF Series**

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

### PRODUCT DESCRIPTION

Juno Trac-Master Current Limiting Pendant Stem Kits provide a simple solution for complying with stringent energy codes like ASHRAE 90.1 and California Title 24. Installed at every trac lighting feed location, these pendant stem kits employ supplementary current limiting circuit breakers which are designed to limit available wattage to lighting circuits to only that necessary to meet the lighting design criteria. Rather than lighting loads being calculated by the greater of maximum fixture wattage ratings or an arbitrary watts-per-foot multiplier, the Trac-Master Current Limiting Pendant Stem Kits enable calculations to instead be made based on the rating of the supplementary breaker installed in the pendant canopy. Because they limit a circuit, not the lighting equipment itself, the Trac-Master Current Limiting Pendant Stem Kits provide maximum flexibility to accommodate frequent lighting design modifications and layout changes, especially typical for retail spaces.



### PRODUCT SPECIFICATIONS

**Features** Designed to be installed at every trac feed location, in place of a standard non-limiting pendant stem kit • Current limiting Pendant Stem Kit, feed connector and current limiting circuit breaker are specified and ordered separately for maximum configuration flexibility • Not intended to be used as a primary circuit protector.

**Compatibility** Compatible with T Series trac along with a T38 End Feed (order separately) • Compatible with TU Series trac along with a TU38 End Feed (order separately) • Compatible with R Series trac along with a R38 End Feed (order separately) • T90CLF is designed to mount to a 15/16" T-bar grid and power fed using flexible conduit or other code compliant direct feed • T91CLF is designed to mount over a standard ceiling j-box.

**Construction** Injection molded polycarbonate canopy • Canopy is installed using tamper-resistant screw (screwdriver bit supplied with each kit) • Injection molded polycarbonate wireway cover included • Wireway cover is permanently attached to trac using one-way screw • All required hardware included in kit (order appropriate feed separately).

**Finish** Available in white, black, silver or bronze finishes • Supplementary current limiting circuit breakers are ordered separately and can be specified in corresponding finishes to match feed connector.

**Supplementary Current Limiting Circuit Breakers** Miniature single pole supplementary current limiters limit the current (wattage) that can be consumed on the trac section being fed • Utilizes hydraulic magnetic technology which provides accurate and reliable circuit protection even when exposed to extremely hot and/or cold application environments • Rated for 120VAC, 60Hz operation • Available in individual amperage ratings of 0.5A, 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 12A and 14A, selected based on actual lighting loads • Can be operated continuously at rated current • Specially designed to prevent nuisance tripping • Easily snaps into mounting plate without the use of tools • Leads wires provided for simplified installation • ON/OFF indication clearly identifies breaker status • Easily resettable in the event of an overcurrent situation • UL 1077, CSA 22.2 approved.

**Labels** UL and cUL Listed • Approved by the California Energy Commission to meet the requirements of Title 24 • Complies with ASHRAE 90.1 and IECC Section 805.5.1.4 for trac current limiting.

**Warranty** 5-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

Specifications subject to change without notice.



# TRAC-MASTER®

Current Limiting Feeds  
For T Series and TU Series Trac Systems

## ORDERING INFORMATION

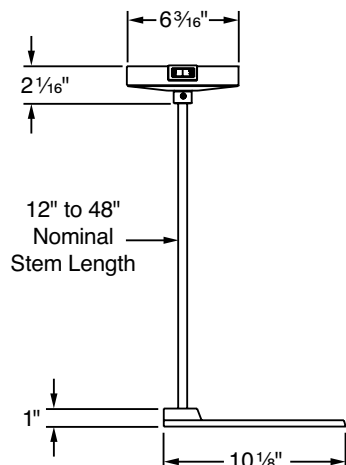
Current Limiting Pendant Stem Kits are compatible with T, TU and R Series trac systems and corresponding End Feed connectors (order separately). Current limiters are also ordered separately (see below) and easily assembled in the canopy by the installer.

Series	Stem Length	Finish
<b>T90CLF</b> T-Bar Ceiling Current Limiting Pendant Stem Kit	<b>12IN</b> 12in. Nominal Length	<b>BL</b> Black
<b>T91CLF</b> Rigid Ceiling Current Limiting Pendant Stem Kit	<b>18IN</b> 18in. Nominal Length	<b>BZ</b> Bronze
	<b>24IN</b> 24in. Nominal Length	<b>SL</b> Silver
	<b>36IN</b> 36in. Nominal Length	<b>WH</b> White
	<b>48IN</b> 48in. Nominal Length	

### Current Limiting Circuit Breakers (order separately)

Catalog Number	Current Limiter	Wattage	Finish	Catalog Number	Current Limiter	Wattage	Finish
<b>TCLCB 0.5A BLCK</b>	0.5A	60W	Black	<b>TCLCB 7A BLCK</b>	7A	840W	Black
<b>TCLCB 0.5A WHT</b>	0.5A	60W	White	<b>TCLCB 7A WHT</b>	7A	840W	White
<b>TCLCB 1A BLCK</b>	1A	120W	Black	<b>TCLCB 8A BLCK</b>	8A	960W	Black
<b>TCLCB 1A WHT</b>	1A	120W	White	<b>TCLCB 8A WHT</b>	8A	960W	White
<b>TCLCB 2A BLCK</b>	2A	240W	Black	<b>TCLCB 9A BLCK</b>	9A	1080W	Black
<b>TCLCB 2A WHT</b>	2A	240W	White	<b>TCLCB 9A WHT</b>	9A	1080W	White
<b>TCLCB 3A BLCK</b>	3A	360W	Black	<b>TCLCB 10A BLCK</b>	10A	1200W	Black
<b>TCLCB 3A WHT</b>	3A	360W	White	<b>TCLCB 10A WHT</b>	10A	1200W	White
<b>TCLCB 4A BLCK</b>	4A	480W	Black	<b>TCLCB 12A BLCK</b>	12A	1440W	Black
<b>TCLCB 4A WHT</b>	4A	480W	White	<b>TCLCB 12A WHT</b>	12A	1440W	White
<b>TCLCB 5A BLCK</b>	5A	600W	Black	<b>TCLCB 14A BLCK</b>	14A	1680W	Black
<b>TCLCB 5A WHT</b>	5A	600W	White	<b>TCLCB 14A WHT</b>	14A	1680W	White
<b>TCLCB 6A BLCK</b>	6A	720W	Black				
<b>TCLCB 6A WHT</b>	6A	720W	White				

## DIMENSIONS



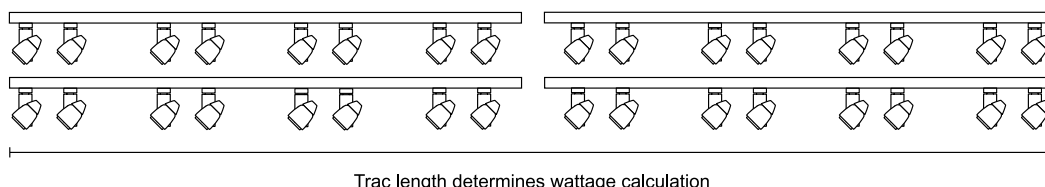
## Current Limiting Feeds For T Series and TU Series Trac Systems

### APPLICATION

Energy codes typically calculate trac lighting loads based on linear feet of installed trac. Some codes use an arbitrary multiplier as low as 30 watts/foot while others use a multiplier as high as 70 watts/foot. When using the energy efficient lighting technologies available today, the connected load is typically much less than the per-foot multipliers used by most energy codes. This penalizes lighting designs that employ trac lighting and wastes available lighting watts that could be used more effectively.

Below is a typical trac lighting example. The Standard Layout consists of 100' of single circuit trac (4 circuits x 25' each) with 32 LED trac heads, each consuming 24W, for a total connected load of 768W. The scenario with the *Trac-Master* Current Limiting Feeds uses the original 100' of single circuit trac, with each 25' trac section monitored by a 2-Amp supplementary current limiter that is closely matched to the actual connected load of 768W plus a small buffer. This significantly reduces the calculated watts per the energy codes.

#### 1. Standard Layout without *Trac-Master* Current Limiting Feeds



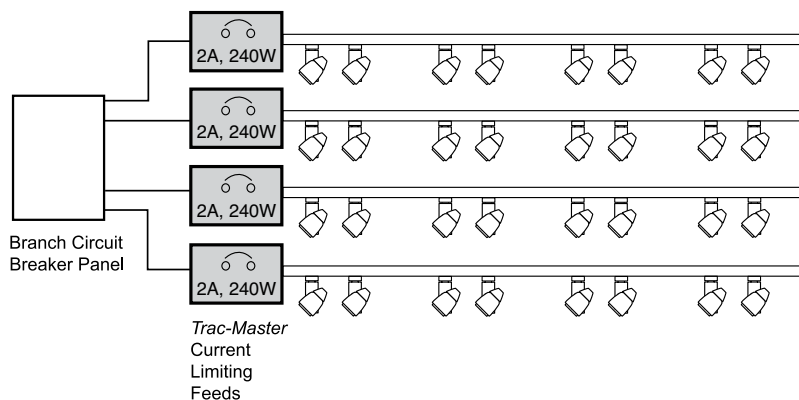
100 ft of track = **4500W\***

\*Based on 45W/ft multiplier of California Title 24

Trac length determines wattage calculation

*Trac-Master* Current Limiting Feeds install between the branch circuit breaker and the trac lighting, solving the energy code calculation discrepancy, making the wattage calculation independent of trac length.

#### 3. Standard Layout with *Trac-Master* Current Limiting Feeds



Same 100 ft. of trac: 2A @ 120V = 240W (x4 circuits)

**960W total**