

QUICKTRONIC® PROStart® T5HO QUICKSTEP® Bi-Level Dimming Systems



**Programmed Rapid Start
0.80 Ballast Factor**

Professional Series

**QS T5HO 0.80BF
BI-LEVEL**

Lamp / Ballast Guide

54W T5HO - PENTRON® lamps*
2-lamp QS2x54T5HO/UNVPS80SC

Also operates:
FT55DL

*Not to be used with Energy Saving
T5HO lamps

Key System Features

- QUICKSTEP Stepped Switching bi-level dimming
- Universal voltage (120-277V)
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- PROStart programmed rapid start
- Operates at >42 kHz to reduce potential interference with infrared control systems
- High power factor (>98%)
- <10% THD total harmonic distortion at full power
- UL, CSA, FCC
- Small can enclosure
- RoHS compliant
- Lead-free solder and manufacturing process



Application Information

SYLVANIA QUICKTRONIC T5HO QUICKSTEP ballasts

are ideally suited for:

- Office
- Schools
- Commercial
- Retail
- Occupancy sensor usage
- Building control systems
- Institutional
- Load shedding

SYLVANIA QUICKTRONIC Professional T5HO QUICKSTEP Bi-Level Dimming electronic ballasts operate PENTRON T5HO ECOLOGIC lamps are tuned to provide a unique 0.80 ballast factor, providing 20% energy savings over conventional 2 lamp 54W T5HO systems. These ballasts will easily switch from 100% to 50% power with standard wall switches. QUICKSTEP bi-level step dimming ballasts are specifically designed to meet California's Energy Efficiency Standards (Title 24*) for multi level-lighting controls (Section 131). The combined lamp and ballast system offers high performance features that are standard on SYLVANIA's Professional Series of ballasts.

QUICKTRONIC T5HO ballasts contain QUICKSENSE ballast technology, a patented circuitry designed to shut down the system reliably and safely when lamps reach end-of-life.

System Information

SYLVANIA QUICKTRONIC Professional T5HO QUICKSTEP Bi-Level Dimming advantages:

- Operate from 120V through 277V
 - Eliminates "wrong voltage" errors
 - Reduces inventory by 50%
- Utilizes Programmed Rapid Start operation for
 - Highest System Efficacy
 - Longer Life
- Over 100,000 switching cycles for occupancy sensor and building control systems applications

QUICKSENSE ballast technology helps to protect against overheated bases and sockets, as well as cracking of the glass wall, and uses dynamic end-of-lamp-life sensing to avoid false shutdowns caused by some static sensing methods. QUICKSENSE ballast technology will auto reset when the end-of-life lamps are replaced with new ones.

The QUICKSTEP system has two AC line inputs in addition to the neutral wire. These AC line inputs must be connected to the same phase of the line voltage. The two line inputs can be configured



These ballasts are RoHS compliant and feature lead-free solder and manufacturing process.

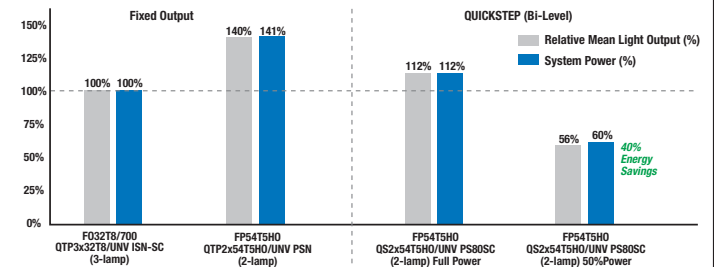
Setting the standard for quality,
QUICKTRONIC PROStart T5HO QUICKSTEP

Bi-Level Dimming ballasts are covered by the QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

*California's Energy Efficiency Standards 2008
Title 24 Section 131.

System Type	Input System Power (W)	Initial System Lumens	Mean System Lumens	Initial System Efficacy (lm/W)	Relative Mean Light Output	Energy Savings (%)
F032T8/700 - QTP3x32T8/UNV ISN-SC (3-lamp)	86	7390	6650	86	Baseline	Baseline
FP54T5HO - QTP2x54T5HO/UNV PSN (2-lamp)	121	10,000	9300	83	140%	41%
FP54T5HO - QS2x54T5HO/UNV PS80SC (2-lamp) Full Power	96	8000	7440	83	112%	12%
FP54T5HO - QS2x54T5HO/UNV PS80SC (2-lamp) 50% Power	52	4000	3720	77	56%	40%

*Fixture efficiency not considered. *Lumen Output for T5HO @ 35°C/95°F. *120V input voltage.



to provide a bi-level light output system by wiring the system with two switches. Each switch provides 50% power to the ballast. When both switches are on, the lamps operate at full light output.

When either switch is off, the lamps operate in a dimmed mode and the ballast factor is reduced by 50%.

In addition, system power is reduced to levels that are compliant with Section 131b- California Energy Commission Title 24.

Alternatively, QUICKSTEP ballasts can be controlled by occupancy sensors allowing for customized zone controls and various energy saving configurations.

SPECIFICATION DATA

Catalog #	Date	Type
Project	Prepared by	
Comments		

T5HO QUICKSTEP 0.80BF

Professional Series

Performance Guide

Data provided is based on testing done using SYLVANIA PENTRON® HO lamps. QUICKTRONIC® T5HO 0.80BF and QUICKSTEP ballasts are compatible with other lamp manufacturers equivalent lamp types that meet ANSI standards. **Not to be used with Energy Saving T5HO lamps.**

QUICKSTEP® (Bi-Level) T5HO 0.80BF Dimming Systems (120-277V)

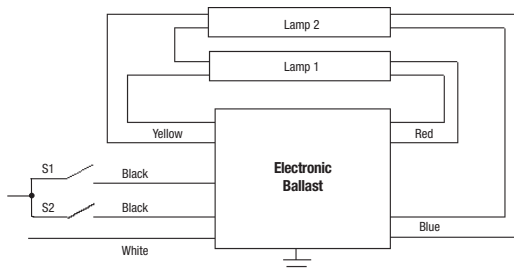


Item Number	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (lm/W)	BEF ²
49419	QS 2x54T5HO/UNV PS80SC	0.80/0.34	FP54T5HO	5000	2	0.80	8000	7440	96/93	83/86	0.86
		0.44/0.19	FP54T5HO	5000	2	0.40	4000	3720	52/51	77/78	0.78

1: At 35°C lamp ambient temperature.
 2: Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).

Installation Notes

- Install in accordance with National & Local Electric Code
- Ground ballast case
- For QUICKSTEP ballasts, the AC line inputs must be connected to the same phase of the line voltage
- **DO NOT CONNECT** two separate phases of line voltage to the input of QUICKSTEP ballasts, the ballast will be damaged and not covered by warranty



2-Lamp QS (QUICKSTEP)

Full light output (full power) S1 & S2 closed (on)
 Bi-level mode S1 or S2 open (off)

Specifications

Data based on FP54T5HO

- Starting Method:** Programmed Rapid Start
- Circuit Type:** Series
- Lamp Frequency:** >42 kHz
- Lamp CCF:** Less than 1.7
- Starting Temp:** 50°F (10°C) min.
- Input Frequency:** 50/60 Hz
- Low THD:** <10% (Full power)
<20% THD (@50% power)
- Power Factor:** >98% (Full power)
- Voltage Range:** ±10% of Rated Input

UL Listed Class P, Type 1, Outdoor, CSA Certified
 70°C Max. Case Temperature
 FCC 47CFR Part 18 Non-Consumer Class A+ Sound Rating
 RoHS Compliant³
 ANSI C62.41 Cat. A Transient Protection
 Dynamic End-of-Lamp-Life Sensing
 Remote Mounting (Max. wire length from ballast case to lampholder): up to 10 feet

³ Complies with European Union Restriction of Hazardous Substances Directive (Directive EC 2002/95)

System Life / Warranty

QUICKTRONIC products are covered by the QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to the QUICK 60+ warranty bulletin.

OSRAM SYLVANIA National Customer Service and Sales Center
 1-800-LIGHTBULB (1-800-544-4828)
 www.sylvania.com

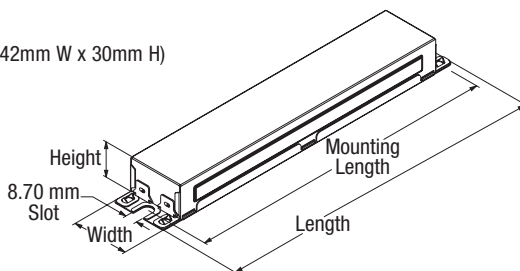
Specifications subject to change without notice.

Dimensions:

Small Can (SC) enclosure size:
 Overall: 9.5" L x 1.68" W x 1.18" H (241mm L x 42mm W x 30mm H)
 Mounting: 8.90" (226mm)

Wiring:
 Leads only

Packaging:
 Quantity: 10 pcs
 Weight: 1.6 lbs each (approx)



Item Number	49419	QS	2	x	54	/	T5HO/UNV	PS80	SC	Case Size
QUICKSTEP										Starting/Ballast Factor
Number of Lamps										Line Voltage (120-277V)
										Primary Lamp Wattage