

# QUICKTRONIC® PROStart® T5HO 0.80BF Universal Ballast

<10% THD Electronic T5HO Fluorescent  
Programmed Rapid Start Systems  
0.80BF Professional and QUICKSTEP® Series

## Professional Series

### Lamp / Ballast Guide

54W T5HO - PENTRON®  
2-lamp: QTP2x54T5HO/UNVPS80SC  
QS2x54T5HO/UNVPS80SC

Also operates:  
FT55DL

The SYLVANIA QUICKTRONIC T5HO 0.80BF ballasts operate PENTRON T5HO ECOLOGIC lamps. The ballast is tuned to provide a unique 0.80 ballast factor, providing 20% energy savings over conventional 2 lamp 54W T5HO systems. The system includes SYLVANIA's new line of QUICKSTEP stepped switching ballasts. QUICKSTEP ballasts are specially designed to meet California Energy Commission's Title 24 requirements 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.

### Key System Features

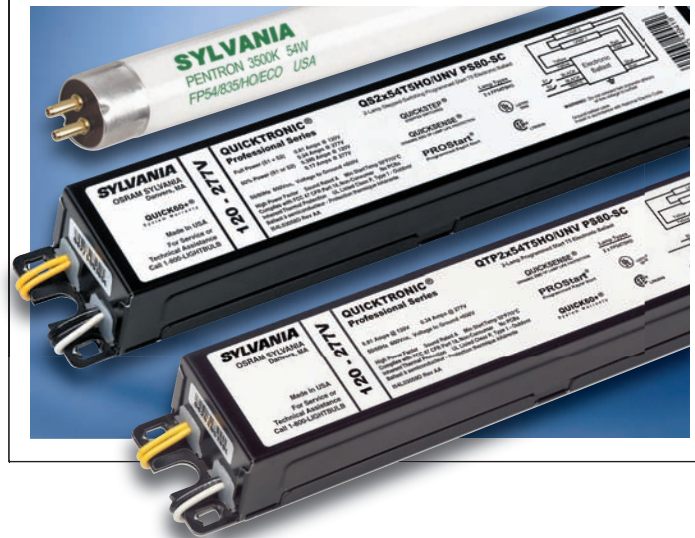
- QUICKSTEP Stepped Switching bi-level dimming
- Universal voltage (120-277V)
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- PROStart programmed rapid start
- Operates at >40 kHz to reduce potential interference with infrared control systems
- High power factor (>98%)
- <10% THD total harmonic distortion at full power
- UL, CSA, FCC
- Small can enclosure



### Application Information

**SYLVANIA QUICKTRONIC T5HO Ballasts** are ideally suited for:

- Office
- Schools
- Commercial
- Retail
- Hospitality
- Institutional
- New construction
- Renovations



Setting the standard for quality, PENTRON Systems are also covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

QUICKTRONIC 0.80BF T5HO is available as a two-lamp model in either a Professional or QUICKSTEP version, to cover a wide range of applications.

### System Information

QUICKTRONIC 0.80BF T5HO Systems operate from 120V through 277V, 50 or 60Hz, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half.

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 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 Title 24.

System Comparisons	Input Power (W)	Initial System Lumens	System Efficacy LPW
QS2x54T5HO/UNV PS80SC - FP54T5HO (2 lamp)	96	8000	83
QTP2x54T5HO/UNV PSN - FP54T5HO (2 lamp)	121	10,000	83
F32T8- 3 lamp Instant Start Electronic	88	7525	86

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

PROStart ballasts deliver optimum starting conditions to provide up to 100,000 switching cycles for use on occupancy sensors and building control systems.

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.

**SPECIFICATION DATA**

Catalog #	Date	Type
Project	Prepared by	
Comments		

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

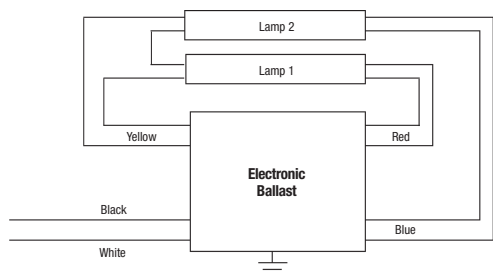
Item Number	Description	Input Current (AMPS)	Lamp Type	Rated <sup>1</sup> Lumens (lm)	No. of Lamps	Ballast <sup>1</sup> Factor (BF)	System <sup>1</sup> Lumens	Mean <sup>1</sup> Lumens	Input <sup>1</sup> Power (W)	System Efficacy (lm/W)	BEF <sup>2</sup>
<b>QTP Fixed Output BF0.80</b>											
49418	QTP 2x54T5HO/UNV PS80SC	0.80/0.34	FP54T5HO	5000	2	0.80	8000	7440	96/93	83/86	0.86
<b>QUICKSTEP Bi-Level Switchable Model</b>											
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.

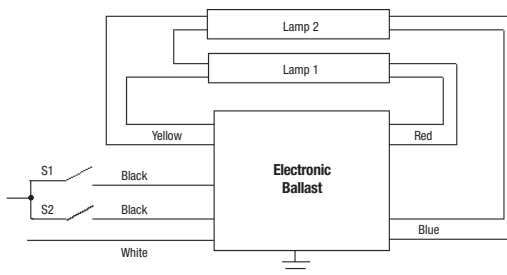
2: Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).

**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 QTP**  
Fixed output only



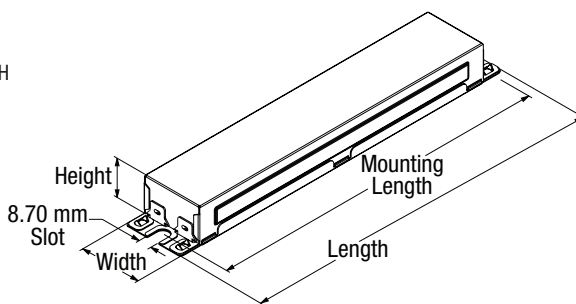
**2-Lamp QS (QUICKSTEP)**  
Full light output (full power) S1 & S2 closed (on)  
Bi-level mode S1 or S2 open (off)

**Dimensions:**

Small Can (SC) enclosure size:  
Overall: 9.5" L x 1.68" W x 1.18" H  
Mounting: 8.90"

**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

**0.80 BF & QUICKSTEP®**

**T5HO BF 0.80**

**Professional Series**

**Performance Guide**

Data based upon SYLVANIA PENTRON® HO lamps shown. QUICKTRONIC® T5HO 0.80BF and QUICKSTEP ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI standards.

**Specifications**  
Data based on FP54T5HO

- Starting Method:** Programmed Rapid Start
- Circuit Type:** Series
- Lamp Frequency:** >40 kHz
- Lamp CCF:** Less than 1.7
- Starting Temp:** 50°F (10°C) minimum
- 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
- 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

**System Life / Warranty**

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

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



**QS BI-LEVEL & QTP T5HO**