

QUICKTRONIC® PROStart® T5HO Universal Voltage

Professional Series

Lamp / Ballast Guide

54W T5 - PENTRON® HO

1-lamp QTP1x54T5HO/UNV

2-lamp QTP2x54T5HO/UNV

Also operates:

FT55DL, FT50DL, FPC55, L58T8

39W T5 - PENTRON HO

1-lamp QTP1x39-24T5HO/UNV

2-lamp QTP2x39-24T5HO/UNV

24W T5 - PENTRON HO

1-lamp QTP1x39-24T5HO/UNV

2-lamp QTP2x39-24T5HO/UNV

Also operates:

FT36DL, FT24DL, CF24DF, CF36DF,
FPC40, FPC22

80W T5 - PENTRON HO

1-lamp QTP1x80T5HO/UNV

Also operates:

FT80DL

Two lamp models can be wired for one lamp operation.

SYLVANIA QUICKTRONIC PHO operates PENTRON HO, PENTRON HO Circline, and DULUX® L T5 lamps with full lumen output and optimal system performance.

SYSTEM PHO provides nearly twice the light output (188%) of T8 systems, with the same number of lamps, allowing many new design options. One lamp fixtures can now be used in place of two lamp models.

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

Setting the standard for quality, SYSTEM PHO is also covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.



SYSTEM PHO is available in one and two lamp models to cover a wide range of applications.

Key System Features

- Universal voltage (120-277V)
- Low-profile (0.86" High)
- 100% Ballast factor
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- PROStart programmed rapid start
- UL type CC rated
- Min. Starting Temp:
 - 0°F/-18°C
 - -20°F/-29°C for QTP 2x54T5HO Models
- Operates at >40 KHz to reduce potential interference with infrared control systems
- High power factor
- Low harmonic distortion
- Lightweight
- UL, CSA, FCC



Application Information

SYLVANIA QUICKTRONIC PHO

is ideally suited for:

- Commercial & retail
- Hospitality & institutional
- New construction
- Direct lighting
- Indirect lighting
- Surface mount
- Cove lighting

System Information

System PHO operates from 120V through 277V, 50 or 60Hz, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half.

PROStart ballasts provide 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.

The two lamp unit can be wired for one lamp operation, allowing for an additional 50% reduction in inventory model numbers.

System Type	Input Power (W)	Initial System Lumens	System Efficacy LPW
F40T12 - E.S. Magnetic Ballast (4-lamp)	172	11590	67
F34T12 - E.S. Magnetic Ballast (4-lamp)	144	9500	66
F032T8/XP - QT4x32IS (4-lamp)	114	10800	95
FP54T5HO - QTP2x54T5HO/UNV PSN (2-lamp)	121	10000	83
F032T8/XP - QT2x32IS (2-lamp)	59	5400	92
FP54T5HO - QTP1x54T5HO/UNV PSN (1-lamp)	62	5000	81

SYSTEM PHO comes in a 22H x 30W mm profile, and PENTRON lamps are designed to provide peak performance at 35°C fixture ambient, allowing for smaller and more innovative fixtures.

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics of lamps and ballasts is available upon request.



SPECIFICATION DATA

Catalog #	Date	Type
Project	Prepared by	
Comments		

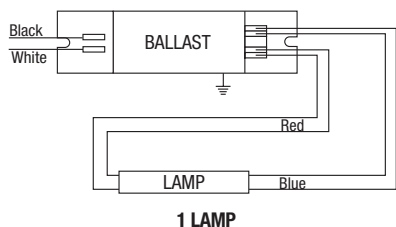
Universal Voltage (120-277V)

Item Number	Description	Input Current (AMPS)	Lamp Type	Rated ¹ Lumens (lm)	No. of Lamps	Ballast ¹ Factor (BF)	System ¹ Lumens	Mean ¹ Lumens	Input ¹ Power (Watts)	System Efficacy (lm/W)	BEF ²
49101 (49100)*	QTP 1x39-24T5HO/UNV PSN	0.23/0.10	FP24T5HO	2000	1	1.00	2000	1860	29	70	3.45
49111 (49110)*	QTP 2x39-24T5HO/UNV PSN	0.47/0.20	FP24T5HO	2000	2	1.00 1.00	4000 2000	3720 1860	55/54 29	73/74 70	1.85 3.45
49101 (49100)*	QTP 1x39-24T5HO/UNV PSN	0.36/0.15	FP39T5HO	3500	1	1.00	3500	3255	42	83	2.38
49111 (49110)*	QTP 2x39-24T5HO/UNV PSN	0.76/0.32	FP39T5HO	3500	2	1.00 1.00	7000 3500	6510 3255	85/83 42	82/84 83	1.20 2.38
49121 (49120)*	QTP 1x54T5HO/UNV PSN	0.51/0.21	FP54T5HO	5000	1	1.00	5000	4650	62/60	81/83	1.67
49131 (49130)*	QTP 2x54T5HO/UNV PSN	1.00/0.43	FP54T5HO	5000	2	1.00 1.00	10000 5000	9300 4650	121/118 61	83/85 82	0.85 1.64
(49150)*	QTP 1x80T5HO/UNV PSN	0.74/0.32	FP80T5HO FT80T5DL	7000 6000	1 1	1.00 1.00	7000 6000	6510 5580	90 90	78 67	1.11 1.11

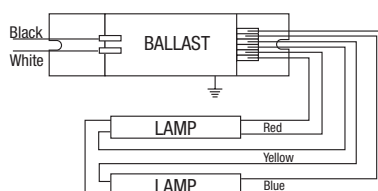
1: At 35°C lamp ambient temperature.

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

*(Item Number) = Item Number/NAED in parentheses are models with leads/wires. Ballast with leads/wires contains 10 pieces each. Ballast without leads contain 20 pieces each.



1 LAMP



2 LAMP

Dimensions:

Model QTP1x39-24T5HO/UNV PSN, QTP2x39-24T5HO/UNV PSN, QTP1x54T5HO/UNV PSN and QTP1x80T5HO/UNV PSN enclosure size:

Overall: 360mm L x 30mm W x 22mm H

Mounting: 349mm

Model QTP2x54 T5HO/UNV PSN enclosure size:

Overall: 425mm L x 30mm W x 22mm H

Mounting: 415mm

Wiring:

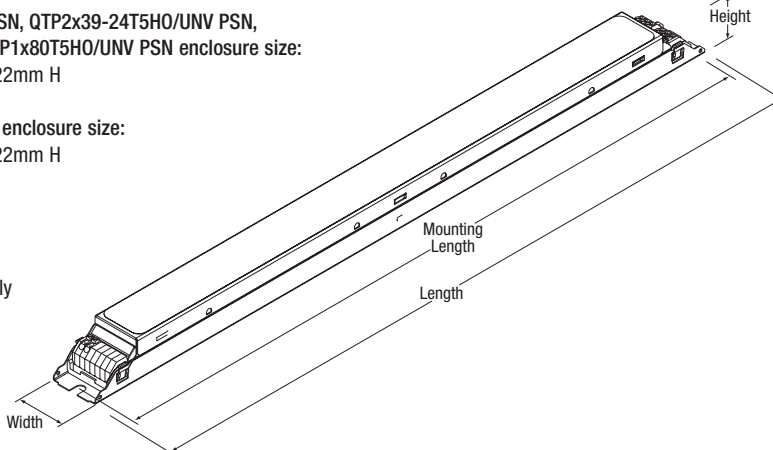
Push-in connectors

Use 18AWG solid copper wire only

Product Weight:

1L: 0.68 lbs each (approx)

2L: 0.88 lbs each (approx)



Item Number: 49131 QTP 2 x 54 T5HO/UNV PSN
 QUICKTRONIC PROFESSIONAL
 Number of Lamps (1, 2)

Starting/Ballast Factor
 Line Voltage (120-277V)
 Primary Lamp Wattage

Normal Ballast Factor

T5HO PROStart® UNV

Professional Series

Performance Guide

Data based upon SYLVANIA PENTRON® lamps shown. QUICKTRONIC® PHO ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

Specifications³

Starting Method: Programmed
Rapid Start

Ballast Factor: 1.00

Circuit Type: Series

Lamp Frequency: >40 kHz

Lamp CCF: Less than 1.6

Starting Temp: 0°F (-18°C) minimum⁴

-20°F (-29°C) Starting for

QTP2x54T5HO Models

Input Frequency: 50/60 Hz

Low THD: <10%

Power Factor: >98%

Voltage Range: ±10% of 120-277V
rated line (108-305V)

UL Listed Class P, Type 1, Outdoor,
Type CC

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 18 feet³

3 Data based on PENTRON HO lamp types for primary ballast application. See the Sylvania QUICKTRONIC® Electronic Ballast Technology and Specification Guide (ECS-ELECTRONIC) for Pentron Circline, DULUX® L/F and other combinations.

4 Operation below 50°F (10°C) may affect light output or lamp operation – see “Low Temp. Starting” definition. Remote red leads up to 18 feet. Keep blue leads <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

 the system solution®

T5HO PSN