QUICKTRONIC® PROStart® T5HO UNIVERSAL

Professional Series

Normal Light Output

Lamp/Ballast Guide

54W T5 - PENTRON® HO
1-lamp QTP1x54T5HO/UNV
2-lamp QTP2x54T5HO/UNV
Also operates:
FT55DL, 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.

Key System Features

- Universal voltage (120-277)
- Low-profile (0.86" High)
- 100% Ballast factor
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- PROStart programmed start
- Occupancy sensor applications
- UL type CC rated
- 0°F Starting
- Operates at >40 Khz to reduce potential interference with infrared control systems
- High power factor
- Low harmonic distortion
- Lightweight
- UL, CSA, FCC

Application Information

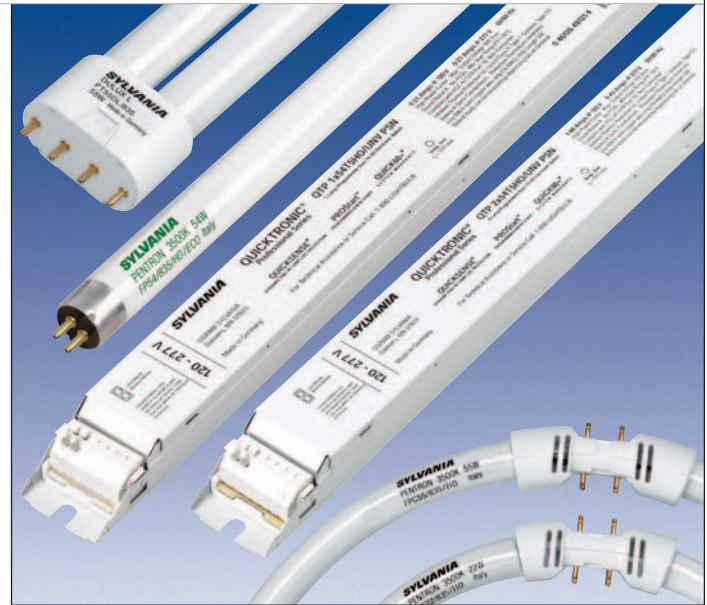**SYLVANIA QUICKTRONIC PHO**
is ideally suited for:

- Commercial & Retail
- Hospitality & Institutional
- New Construction
- Direct Lighting
- Indirect Lighting
- Surface Mount
- Cove Lighting

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.

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 Wattage	Initial Lumens	System LPW
F40T12 - E.S. Magnetic Ballast (4-lamp)	172	11590	67
F34T12 - E.S. Magnetic Ballast (4-lamp)	144	9500	66
FO32T8/XP - QT4x32IS (4-lamp)	114	10800	95
FP54T5 - QTP2x54T5HO/UNV PSN (2-lamp)	121	10000	83
FO32T8/XP - QT2x32IS (2-lamp)	59	5400	92
FP54T5 - 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.

<10% THD Electronic T5 HO Fluorescent Systems

Item Number	Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp[1] Type	Rated[2,3] Lumens (lm)	No. of Lamps	Ballast[3] Factor (BF)	System[3] Lumens	Input[3] Power (Watts)	System Efficacy (lm/W)
49101	QTP 1x39-24T5HO/UNV PSN	120-277	0.23/0.10	FP24T5HO	2000	1	1.00	2000	29	70
49111	QTP 2x39-24T5HO/UNV PSN	120-277	0.47/0.20	FP24T5HO	2000	2 1	1.00 1.00	4000 2000	55/54 29	73/74 70
49101	QTP 1x39-24T5HO/UNV PSN	120-277	0.36/0.15	FP39T5HO	3500	1	1.00	3500	42	83
49111	QTP 2x39-24T5HO/UNV PSN	120-277	0.76/0.32	FP39T5HO	3500	2 1	1.00 1.00	7000 3500	85/83 42	82/84 83
49121	QTP 1x54T5HO/UNV PSN	120-277	0.51/0.21	FP54T5HO	5000	1	1.00	5000	62/60	81/83
49131	QTP 2x54T5HO/UNV PSN	120-277	1.00/0.43	FP54T5HO	5000	2 1	1.00 1.00	10000 5000	121/118 61	83/85 82
49151	QTP 1x80T5HO/UNV PSN	120-277	0.74/0.32	FP80T5HO FT80T5DL	7000 6000	1 1	1.00 1.00	7000 6000	90 90	78 67

1 Also compatible with other manufacturer's equivalent lamp types that meet ANSI standards.
2 Rated lamp lumens and performance data based on PENTRON® HO lamps.
3 At 35°C lamp ambient temperature.
New high ambient models below (90°C case temp.) - coming 1Q2004 - check with OSRAM SYLVANIA for product specifications.
49136 QTP 2x54T5HO/UNV PSN HT   49146 QTP 2x54T5HO/347-480V PSN HT   49161 QTP 4x54T5HO/UNV PSN HT W

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 (no leads provided)
Use 18AWG solid copper wire only

Packaging:
Quantity: 20
Weight: 1L: 0.68 lbs each (approx)
        2L: 0.88 lbs each (approx)

Starting Method: Programmed Start
Ballast Factor: 1.00
Circuit Type: Series
Lamp Frequency: > 40 KHz
Lamp CCF: Less than 1.6
Starting Temp.: 0°F minimum[5]
Input Frequency: 50/60 Hz
Low THD: < 10%
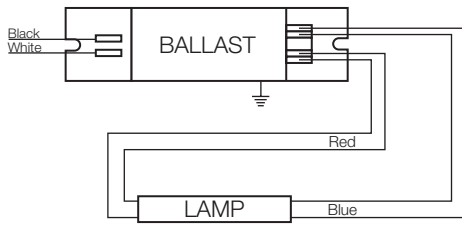**Power Factor:** > 98%
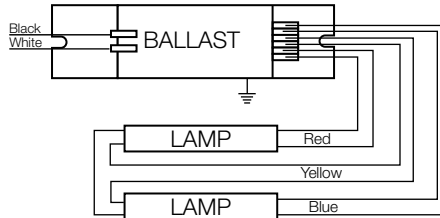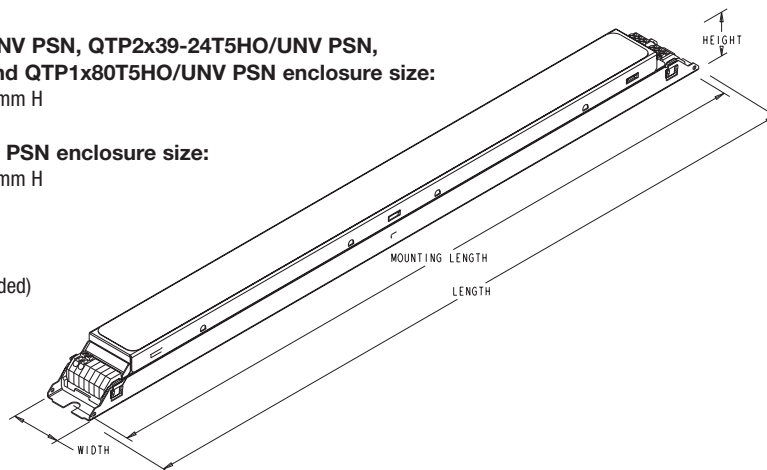**Voltage Range:** +/–10% of Rated Input

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 up to 18 feet[5]

4 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.

5 Operation below 50°F may affect light output or lamp operation – see "Low Temp. Starting" definition. Remote red leads up to 18 feet. Keep blue leads <10 feet.

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.

Specifications subject to change without notice.

Item Number ——— **49131 QTP 2 x 54 T5HO/UNV PSN** ——— Starting/Ballast Factor
QUICKTRONIC PROFESSIONAL ——— Line Voltage (120-277V)
Number of Lamps (1, 2) ——— Primary Lamp Wattage