QUICKTRONIC® PROStart® T5HO
Universal Voltage

Professional Series

Lamp / Ballast Guide

<table>
<thead>
<tr>
<th>54W T5 - PENTRON® HO</th>
<th>1-lamp QTP1x54T5HO/UNV</th>
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</thead>
<tbody>
<tr>
<td>2-lamp QTP2x54T5HO/UNV</td>
<td></td>
</tr>
<tr>
<td>Also operates:</td>
<td>FT55DL, FT56DL, FC55S, LS8T8</td>
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</table>

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 (120-277V)
- 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

System Information

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.

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

Application Information

SYLVANIA QUICKTRONIC PHO is ideally suited for:
- Commercial & retail
- Hospitality & institutional
- New construction
- Direct lighting
- Indirect lighting
- Surface mount
- Cove lighting

System Type | Input Power (W) | Initial System Lumens | System Efficiency LPW
---|---|---|---
F40T12 - E.S. Magnetic Ballast (4-lamp) | 172 | 11590 | 67
F34T12 - E.S. Magnetic Ballast (4-lamp) | 144 | 9500 | 66

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

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Date</th>
<th>Type</th>
</tr>
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<tbody>
<tr>
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</table>

**Project Prepared by**

**Comments**

### SPECIFICATIONS

#### Universal Voltage (120-277V)

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Input Current (AMPS)</th>
<th>Lamp Type</th>
<th>Rated¹ Luminous (lm)</th>
<th>No. of Lamps</th>
<th>Ballast¹ Factor (BF)</th>
<th>System¹ Luminous</th>
<th>Mean² Luminos</th>
<th>Input Power (Watts)</th>
<th>System Efficiency (lm/W)</th>
<th>BEF²</th>
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</thead>
<tbody>
<tr>
<td>49101</td>
<td>QTP 1x39-24T5HO/UNV PSN</td>
<td>0.23/0.10</td>
<td>FP24T5HO</td>
<td>2000</td>
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<td>2000</td>
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<td>3500</td>
<td>3255</td>
<td>42</td>
<td>83</td>
<td>2.38</td>
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<td>QTP 2x39-24T5HO/UNV PSN</td>
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<td>FP39T5HO</td>
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<td>2</td>
<td>1.00</td>
<td>7000</td>
<td>6510</td>
<td>85/83</td>
<td>82/84</td>
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<td>6510</td>
<td>90</td>
<td>78</td>
<td>1.11</td>
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</table>

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).
3: 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.

### 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)

### 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.

**Specifications**

- **Starting Method:** Programmed Rapid Start
- **Circuit Type:** Series
- **Lamp Frequency:** >40 kHz
- **Lamp CCF:** Less than 1.6
- **Starting Temp:** 0°F (-18°C) minimum
  - -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 feet

3: Data based on PENTRON HO lamp types for primary ballast application. See the SYLVANIA QUICKTRONIC® Electronic Ballast Technology and Specification Guide (ECST-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

Specifications subject to change without notice.