

<10% THD Electronic T5 Fluorescent PENTRON PREMIER™ Systems
QUICKTRONIC PREMIER™ PROStart® T5 UNIVERSAL & 347V BALLAST
 Professional and QUICKSTEP® Series **PENTRON PREMIER ECOLOGIC® Lamps**

Lamp/Ballast Guide

28W T5 - PENTRON®
 2-lamp QTP2x28T5/UNVPS115SC
 QTP2x28T5/UNVPS95SC
 QS2x28T5/UNVPS115SC
 QS2x28T5/UNVPS95SC

347V QS2x28T5/347PS95SC

Also operates:
 FP14 and FP21T5 lamps

Key System Features

- High system efficiency
- **First T5 system to achieve up to 100 LPW (lm/w)**
- Universal voltage (120-277) & 347V
- QUICKSTEP Stepped Switching bi-level light output
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- PROStart programmed start
- Suitable for use with occupancy sensors
- 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 PREMIER T5 is ideally suited for:

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

SYLVANIA'S QUICKTRONIC PREMIER T5 ballasts operate the new PENTRON PREMIER T5 ECOLOGIC lamps at various lumen outputs to offer a range of high efficiency T5 lighting 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 a high efficiency system for T5 fixtures along with the high performance features that are standard on SYLVANIA's Professional Series of ballasts.

QUICKTRONIC PREMIER T5 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

QUICKTRONIC PREMIER UNV Systems operate from 120V through 277V, 50 or 60Hz, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half. A 347V model is also available.

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.



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

QUICKTRONIC PREMIER T5 is available in two-lamp models with two ballast factors to cover a wide range of applications.

| System Comparisons | Input Wattage | Initial Lumens | System LPW |
|---|---------------|----------------|------------|
| QTP2x28T5/UNV PS95SC - FP28T5PM/ECO (2 lamp) | 60/58 | 5795 | 97/100 |
| QTP2x28T5/UNV PS115SC - FP28T5PM/ECO (2 lamp) | 73/71 | 7015 | 96/99 |
| F34T12 - Energy Saver Magnetic (2 lamp) | 72 | 4660 | 65 |
| F32T8- 3 lamp Instant Start Electronic | 88 | 7525 | 86 |

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 draws 50% of the full light power.

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

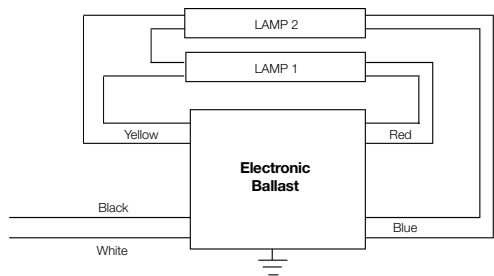
<10% THD Electronic T5 High Efficiency PENTRON PREMIER™ Fluorescent Systems

| NAED 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) |
|---|---|---------------------|------------------------|------------------------|----------------------------------|--------------|----------------------------------|----------------------------|----------------------------------|------------------------|
| QUICKSTEP Bi-Level 100-50% Power Switchable Models (High Efficiency Systems) | | | | | | | | | | |
| 49412 | QS 2x28T5/UNV PS95SC (50% Power Bi-Level Mode) | 120-277 | 0.50/0.22 0.25/0.11 | FP28T5PM/ECO | 3050 | 2 | 0.95 0.35 | 5795 2135 | 60/58 28 | 97/100 76 |
| 49413 | QS 2x28T5/UNV PS115SC (50% Power Bi-Level Mode) | 120-277 | 0.61/0.26 0.31/0.13 | FP28T5PM/ECO | 3050 | 2 | 1.15 0.48 | 7015 2930 | 73/71 35 | 96/99 84 |
| 49438 | QS 2x28T5/347V PS95SC (50% Power Bi-Level Mode) | 347 | 0.18 0.09 | FP28T5PM/ECO | 3050 | 2 | 0.95 0.35 | 5795 2135 | 60 28 | 97 76 |
| QTP Fixed Output BF0.95 & BF1.15 (High Efficiency Systems) | | | | | | | | | | |
| 49410 | QTP 2x28T5/UNV PS95SC | 120-277 | 0.50/0.22 | FP28T5PM/ECO | 3050 | 2 | 0.95 | 5795 | 60/58 | 97/100 |
| 49411 | QTP 2x28T5/UNV PS115SC | 120-277 | 0.61/0.26 | FP28T5PM/ECO | 3050 | 2 | 1.15 | 7015 | 73/71 | 96/99 |

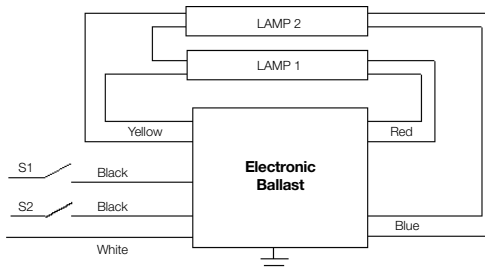
1 Also compatible with equivalent lamp types that meet ANSI standards.
2 Rated lamp lumens and performance data based on PENTRON PREMIER ECOLOGIC lamps.
3 At 35°C lamp ambient temperature.

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



2-Lamp QTP
Fixed output only



2-Lamp QS (QUICKSTEP)
Full light output (full power) S1 & S2 closed (on)
Bi-level mode (50% power) S1 or S2 open (off)

Dimensions:

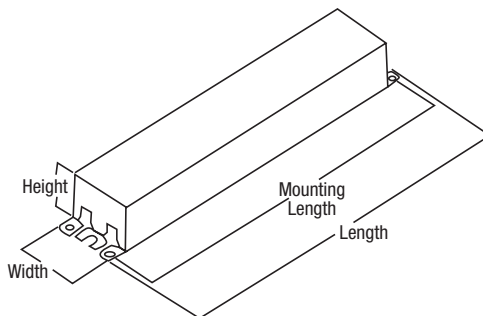
Small Can (SC) enclosure size:
Overall: 9.5" L x 1.68" W x 1.18" H
Mounting: 8.90"

Wiring:

Leads only

Packaging:

Quantity: 840 pc pallet
Weight: 1.6 lbs each (approx)



EXAMPLES:

QUICKTRONIC PROFESSIONAL (QTP) or also available in QUICKSTEP (QS) ——— **QS 2 x 28 T5/UNV PS95 SC** ——— Enclosure Type (SC - Small Can)
Number of Lamps ——— Ballast Factor (95 or 115)
Primary Lamp Wattage/Type ——— Starting Type - PROStart
Line Voltage (120-277V) or 347V

Performance Guide

Rated lamp lumens and performance data based on PENTRON PREMIER ECOLOGIC® lamps.

Data shown for the new 347V product is preliminary and subject to change.

Specifications

- Starting Method:** Programmed Start
- Circuit Type:** Series
- Lamp Frequency:** > 40 KHz
- Lamp CCF:** Less than 1.6
- Starting Temp:** 32°F (0°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 up to 8 feet for QTP models and 7 feet for QS models.

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.

Ordering Guide

Specifications subject to change without notice.