

QUICKTRONIC® PROStart® T5 Universal Systems



Type CC
Programmed Rapid Start
Normal Ballast Factor

Professional Series

QTP T5 PSN

Lamp / Ballast Guide

28W T5 - PENTRON® lamps
1-lamp QTP1x28T5/UNV PSN or
QTP2x28T5/UNV PSN*
2-lamp QTP2x28T5/UNV PSN

Primary Lamp Type:
FP28

Also operates:
FP14, FP21, FP35

*Two lamp model can be wired for one lamp operation.

Key System Features

- Universal voltage (120-277V)
- Low-profile (0.87" High)
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- PROStart programmed rapid start
- UL type CC rated
- 0°F (-18°C) Starting
- Operates at >42 kHz to reduce potential interference with infrared control systems
- High power factor
- Low harmonic distortion
- Lightweight
- UL, CSA, FCC
- RoHS compliant
- Lead-free solder and manufacturing process



Application Information

SYLVANIA QUICKTRONIC PROStart T5 ballasts

are ideally suited for:

- Commercial
- Retail
- Hospitality
- Institutional
- New construction
- Direct lighting
- Indirect lighting
- Surface mount
- Cove lighting

SYLVANIA QUICKTRONIC PROStart T5 ballasts operate PENTRON T5 lamps with full lumen output and optimal system performance.

QUICKTRONIC PROStart T5 ballasts contain QUICKSENSE ballast technology, a patented circuitry designed to shut down the system reliably and safely when lamps reach end-of-life.

QUICKTRONIC PROStart T5 UNV Systems are available as a two lamp model which can be wired for one lamp operation to cover a wide range of applications.

Setting the standard for quality, QUICKTRONIC PROStart T5 UNV systems are covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

These ballasts are also RoHS compliant and feature lead-free solder and manufacturing process.

System Information

QUICKTRONIC PROStart T5 UNV Systems operate from 120V through 277V, 50/60 Hz, 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 (2-lamp)	Input Power (W)	Initial System Lumens	System Efficacy LPW
F40T12 - Standard Magnetic	96	5795	60
Energy Saver Magnetic	86	5795	67
F34T12 - Energy Saver Magnetic	72	4750	66
QT2x32IS - F032/800	59	5310	90
QTP2x28T5/UNV PSN - FP28/800	65/63	5800	89/92

QUICKTRONIC PROStart T5 UNV Systems are in a 0.87"H x 1.18"W profile, and PENTRON lamps are designed to provide peak performance at 35°C fixture ambient, allowing for smaller and more innovative fixtures.

Customers should always consider upgrading to our [High Efficiency Systems](#) to maximize energy savings.

SPECIFICATION DATA

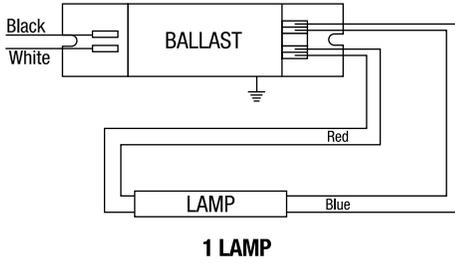
Catalog #	Date	Type
Project	Prepared by	
Comments		

Type CC & Universal Voltage (120-277V)

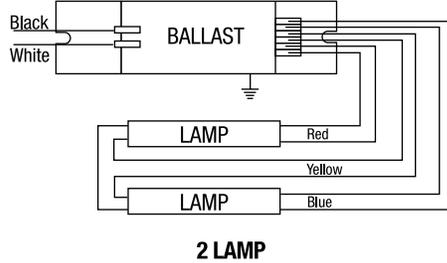


Item Number	Description	Input Current (AMPS)	Lamp ¹ Type	Rated ¹ Lumens (lm)	No. of Lamps	Ballast ¹ Factor (BF)	System ¹ Lumens	Mean ¹ Lumens	Input ¹ Power (Watts)	System Efficacy (lm/W)	BEF ²
49181 (49180)*	QTP2x28T5/UNV PSN	0.55/0.23	FP28T5	2900	2	1.00	5800	5395	65/63	89/92	1.59
49171 (49170)*	QTP1x28T5/UNV PSN	0.28/0.12	FP28T5	2900	1	1.00	2900	2695	32	90	3.13

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 contains 20 pieces each



1 LAMP



2 LAMP

Dimensions:

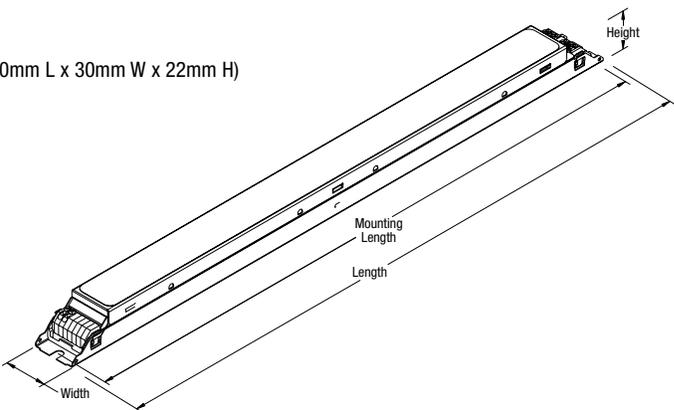
1 & 2 lamp model enclosure size:
 Overall: 14.17"L x 1.18"W x 0.87"H (360mm L x 30mm W x 22mm H)
 Mounting: 13.74" (349mm)

Wiring:

Push-in connectors
 Use 18AWG solid copper wire only

Product Weight:

1L: 0.68 lb (0.31kg) each (approx.)
 2L: 0.88 lb (0.40kg) each (approx.)



Normal Ballast Factor

T5 PROStart®

Professional Series

Performance Guide

Data based upon SYLVANIA PENTRON® lamps shown. QUICKTRONIC® PROStart T5 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:** >42 kHz
- Lamp CCF:** Less than 1.6
- Starting Temp:** 0°F (-18°C) min.⁴
- Input Frequency:** 50/60 Hz
- Low THD:** <10%
- Power Factor:** >98%
- Voltage Range:** ±10% of Rated Input

- UL Listed Class P, Type 1, Outdoor, UL Rated Type CC
- CSA Certified
- 70°C Max Case Temperature
- FCC 47CFR Part 18 Non-Consumer Class A Sound Rating
- RoHS Compliant⁵
- 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 28W lamp types for primary ballast application. See QUICKSYSTEMS in the SYLVANIA Ballast Technology & Specification Guide for other PENTRON 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.
- ⁵ Complies with European Union Restriction of Hazardous Substances Directive (Directive EC 2002/95)

System Life / Warranty

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

QTP T5 PSN

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Item Number **49181** QTP 2 x 28 T5/UNV PSN Starting/Ballast Factor
 QUICKTRONIC PROFESSIONAL Line Voltage (120-277V)
 Number of Lamps (1, 2) Primary Lamp Wattage