QUICKTRONIC® PROStart® T5 Universal Voltage Systems

Professional Series

Type CC
Programmed Rapid Start
Normal Ballast Factor

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 >40 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 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 systesms.

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 - FO32/800	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.

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		

Type CC & Universal Voltage (120-277V)

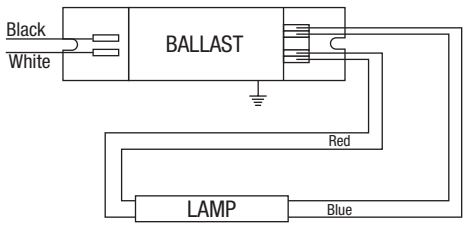
RoHS compliant

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)**	QTP 2x28T5/UNV PSN	0.55/0.23	FP28T5	2900	2 1	1.00 1.00	5800 2900	5395 2695	65/63 32	89/92 90	1.59 3.13
49171 *(49170)**	QTP 1x28T5/UNV PSN	0.28/0.12	FP28T5	2900	1	1.00	2900	2695	32	90	3.13

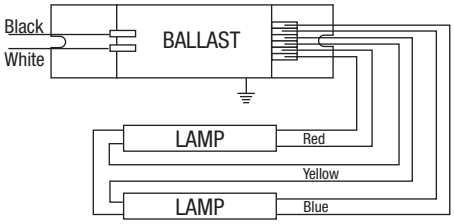
1: At 35°C lamp ambient temperature.

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 contain 20 pieces each*



1 LAMP

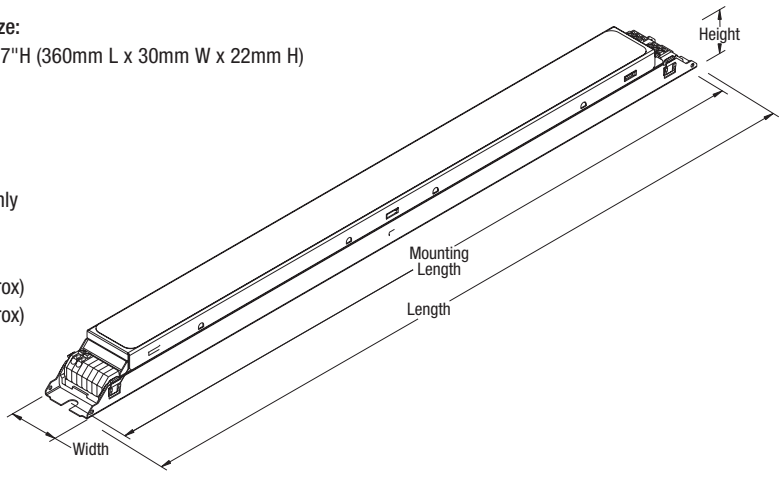


2 LAMP

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 lbs (0.31kg) each (approx)
2L: 0.88 lbs (0.40kg) each (approx)



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

Normal Ballast Factor

T5 PROStart® UNV

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.

Specifications[3]

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) 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 Compliant[5]
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[4]

3 Data based on PENTRON 28W lamp types for primary ballast application. See the Sylvania QUICKTRONIC® Electronic Ballast Technology and Specification Guide (ECS-ELECTRONIC) 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.

Specifications subject to change without notice.

QTP T5 PSN

the system solution®