

# <10% THD Electronic T5 Fluorescent Programmed Rapid Start Systems

## QUICKTRONIC® PROStart® T5 UNIVERSAL

### Professional Series

Normal Light Output

Lamp/Ballast Guide

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

Primary Lamp Type:  
FP28

Also operates:  
FP14, FP21, FP35

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

SYLVANIA QUICKTRONIC PS operates PENTRON T5 lamps with full lumen output and optimal system performance.

SYSTEM PS 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 PS is also covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

SYSTEM PS is available as a two lamp model which can be wired for one lamp operation to cover a wide range of applications.

Key System Features

- Universal voltage (120-277)
- Low-profile (0.86" High)
- 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

System Information

SYSTEM PS 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 (2-lamp)	Input Wattage	Initial Lumens	System 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

SYSTEM PS comes in a 0.86"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.

Application Information

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

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

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SEE THE WORLD IN A NEW LIGHT **SYLVANIA** 

# **PROStart® T5 UNV** **Normal Ballast Factor**

## **<10% THD Electronic T5 Fluorescent Systems**

Item Number	Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp <sup>1</sup> Type	Rated Lumens (lm) <sup>2,3</sup>	No. of Lamps	Ballast <sup>3</sup> Factor (BF)	System <sup>3</sup> Lumens	Input <sup>3</sup> Power (Watts)	System Efficacy (lm/W)
49181	QTP 2x28T5/UNV PSN	120-277	0.55/0.23	FP28T5	2900	2	1.00	5800	65/63	89/92
(49180)*						1	1.00	2900	32	90

<sup>1</sup> Also compatible with other manufacturer's equivalent lamp types that meet ANSI standards.

<sup>2</sup> Rated lamp lumens and performance data based on PENTRON® lamps.

<sup>3</sup> At 35°C lamp ambient temperature.

\*(49180) QTP 2x28T5/UNV PSN: same as 49181, with leads.

## **Performance Guide**

## **Specifications<sup>4</sup>**

**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<sup>5</sup>

**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.<sup>5</sup>

<sup>4</sup> 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.

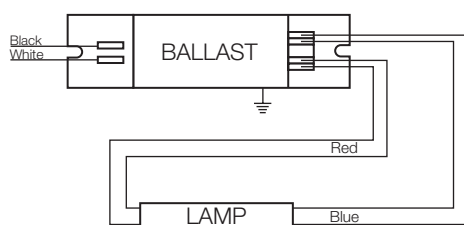
<sup>5</sup> Operation below 50°F may affect light output or lamp operation – see "Low Temp. Starting" definition. Remote red leads up to 18 feet. Keep blue leads <10 feet.

## **System Life / Warranty**

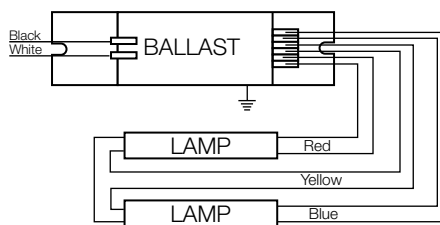
QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

## **Ordering Guide**

Specifications subject to change without notice.



**1 LAMP**



**2 LAMP**

### **Dimensions:**

#### **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 (no leads provided)

Use 18AWG solid copper wire only

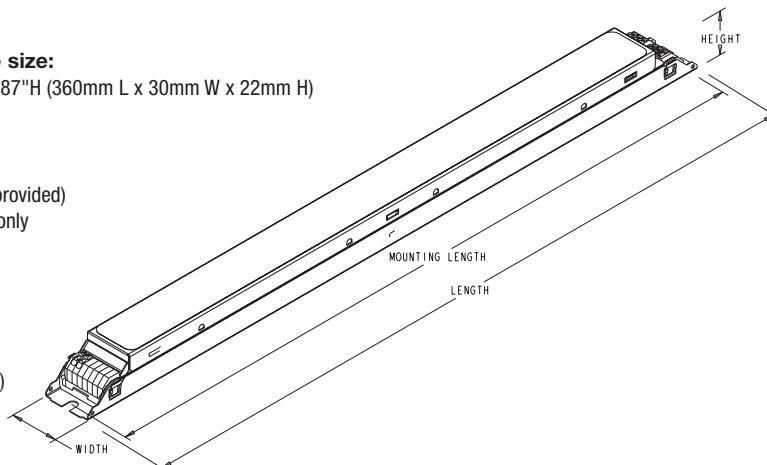
### **Packaging:**

Quantity: 20 (non-leaded)

10 (leaded)

Weight: 0.88 lbs

(0.40 kg) each (approx)



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