

# QUICKTRONIC® PROStart® T5HO

Universal Voltage Systems  
Professional Series



**Type CC**  
**Programmed Rapid Start**  
**Normal Ballast Factor**

**QTP T5HO PSN**

## Lamp / Ballast Guide

**54W T5 – PENTRON® HO lamps**

1-lamp QTP1x54T5HO/UNV

2-lamp QTP2x54T5HO/UNV

Also operates:

FT55DL, FT50DL, FPC55, L58T8

**80W T5 – PENTRON HO lamps**

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 (0.87" height for 49142)
- 1.0 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 >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

**QUICKTRONIC PROStart T5HO ballasts** are ideally suited for:

- Commercial & retail
- Hospitality & institutional
- New construction
- Direct lighting
- Indirect lighting
- Surface mount
- Cove lighting

QUICKTRONIC Professional Series (QTP) PROStart T5HO electronic ballasts operate PENTRON HO, PENTRON HO Circline, and DULUX® L T5 lamps with full lumen output and optimal system performance.

QUICKTRONIC Professional Series (QTP) PROStart T5HO ballasts 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.

QUICKTRONIC Professional Series (QTP) PROStart T5HO ballasts contains QUICKSENSE ballast technology, a patented circuitry designed to shut down the system reliably and safely when lamps reach end-of-life.

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

## System Information

QUICKTRONIC Professional Series (QTP) PROStart T5HO ballasts 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.



QUICKTRONIC PROStart T5HO Systems are available in one and two lamp models to cover a wide range of applications. The first and most comprehensive system warranty in the industry.

Setting the standard for quality, QUICKTRONIC PROStart T5HO Systems are covered by the QUICK 60+® warranty,

System Type	Input Power (W)	Initial System Lumens	System Efficacy LPW
F40T12 - E.S. Magnetic Ballast (4-lamp)	172	11,590	67
F34T12 - E.S. Magnetic Ballast (4-lamp)	144	9500	66
F032T8/XP - QT4x32IS (4-lamp)	114	10,800	95
FP54T5HO - QTP2x54T5HO/UNV PSN (2-lamp)	121	10,000	83
F032T8/XP - QT2x32IS (2-lamp)	59	5400	92
FP54T5HO - QTP1x54T5HO/UNV PSN (1-lamp)	62	5000	81

The two lamp unit can be wired for one lamp operation, allowing for an additional 50% reduction in inventory model numbers.

Customers should always consider upgrading to our High Efficiency Systems to maximize energy savings.

**SPECIFICATION DATA**

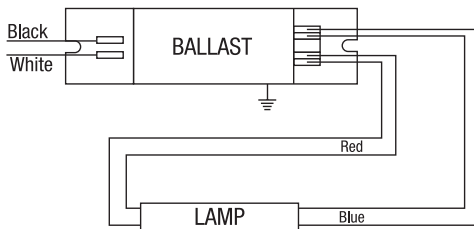
Catalog #	Date	Type
Project	Prepared by	
Comments		

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

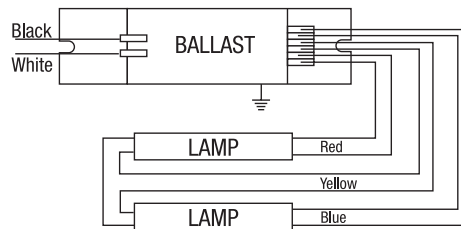


Item Number	Description	Input Current (AMPS)	Lamp <sup>1</sup> Type	Rated <sup>1</sup> Lumens (lm)	No. of Lamps	Ballast <sup>1</sup> Factor (BF)	System <sup>1</sup> Lumens	Mean <sup>1</sup> Lumens	Input <sup>1</sup> Power (W)	System Efficacy (lm/W)	BEF <sup>2</sup>
49121 (49120)*	QTP1x54T5HO/UNV PSN	0.51/0.21	FP54T5HO	5000	1	1.00	5000	4650	62/60	81/83	1.67
49131 (49130)*	QTP2x54T5HO/UNV PSN	1.00/0.43	FP54T5HO FP54T5HO	5000 5000	2 1	1.00 1.00	10,000 5000	9300 4650	121/118 61	83/85 82	0.85 1.64
49142 (49150)*	QTP2x54T5HO/UNV PSN (NL) .87"	1.00/0.43	FP54T5HO	5000	2	1.00	10,000	9300	121/118	83/85	0.85
	QTP1x80T5HO/UNV PSN	0.74/0.32	FP80T5HO FT80T5DL	7000 6000	1 1	1.00 1.00	7000 6000	6510 5580	90 90	78 67	1.11 1.11

<sup>1</sup> T5/T5HO at 35°C lamp ambient temperature.  
<sup>2</sup> 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. No parenthesis = Ballasts with connectors only/no leads.



**1 LAMP**



**2 LAMP**

**Dimensions:**

Model QTP1x54T5HO/UNV PSN and QTP1x80T5HO/UNV PSN 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)

Model QTP2x54 T5HO/UNV PSN (49142) enclosure size:

Overall: 16.73"L x 1.18"W x 0.87"H (425mm L x 30mm W x 22mm H)

Mounting: 16.34" (415mm)

Model QTP2x54 T5HO/UNV PSN enclosure size:

Overall: 16.73"L x 1.18"W x 1.00"H (425mm L x 30mm W x 25.4mm H)

Mounting: 16.34" (415mm)

**Wiring:**

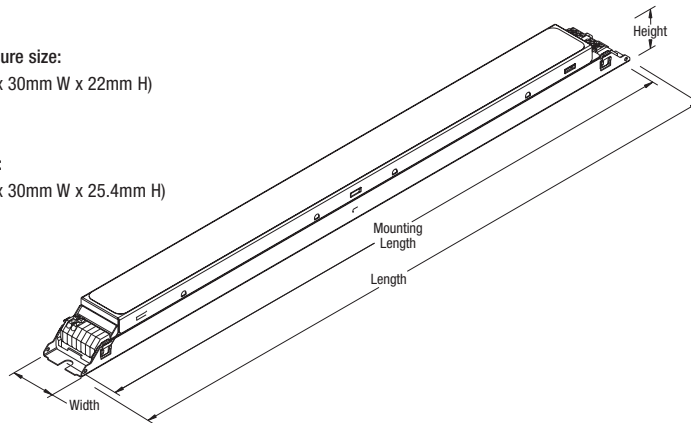
Push-in connectors

Use 18AWG solid copper wire only

**Product Weight:**

1L: 0.68 lb each (approx.)

2L: 0.88 lb each (approx.)



**Normal Ballast Factor**

**T5 PROStart®**

**Professional Series**

**Performance Guide**

Data based upon SYLVANIA PENTRON® lamps shown. QUICKTRONIC® PROStart T5HO Systems are compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

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

**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) minimum<sup>5</sup>

-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<sup>3</sup>

CSA Certified

70°C Max Case Temperature

FCC 47CFR Part 18 Non-Consumer

Class A Sound Rating

RoHS Compliant<sup>6</sup>

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

<sup>3</sup> UL Type CC compliant ballasts utilize a micro-controller based circuit to reduce arcing caused by loose connections or improper lamp pin to socket connections.

<sup>4</sup> Data based on PENTRON HO lamp types for primary ballast application. See QUICKSYSTEMS in the SYLVANIA Ballast Technology & Specification Guide for Pentron Circline, DULUX® L/F and other combinations.

<sup>5</sup> 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.

<sup>6</sup> 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**  
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Specifications subject to change without notice.

**QTP T5HO PSN**

Item Number **49131** QTP **2** x **54** T5HO/UNV PSN Starting/Ballast Factor  
 QUICKTRONIC PROFESSIONAL Line Voltage (120-277V)  
 Number of Lamps (1, 2) Primary Lamp Wattage

