

# Electronic T8 Fluorescent Controllable Lighting Systems

## QUICKTRONIC® POWERSENSE™ T8 DIMMING

### Lamp/Ballast Guide

#### 32W T8 - SYLVANIA OCTRON®

- 1-lamp QTP1x32T8/UNV DIM
- 2-lamp QTP2x32T8/UNV DIM
- 3-lamp QTP3x32T8/UNV DIM
- 4-lamp QTP4x32T8/UNV DIM

#### Primary Lamp Types

FO32, FBO32, FBO31

#### Also operates:

FO25, FBO24  
FO17, FBO16

### Key System Features

- **POWERSENSE compatibility with low voltage and power line dimmers**
- Universal voltage (120-277)
- 100 – 5% Dimming Range
- PROStart programmed start
- Anti-flash circuitry – turns on in dimmed mode
- Lightweight and low profile
- Operates at >42kHz
- QUICK 60+ ballast and lamp warranty

### Application Information

#### SYLVANIA QUICKTRONIC POWERSENSE

is ideally suited for:

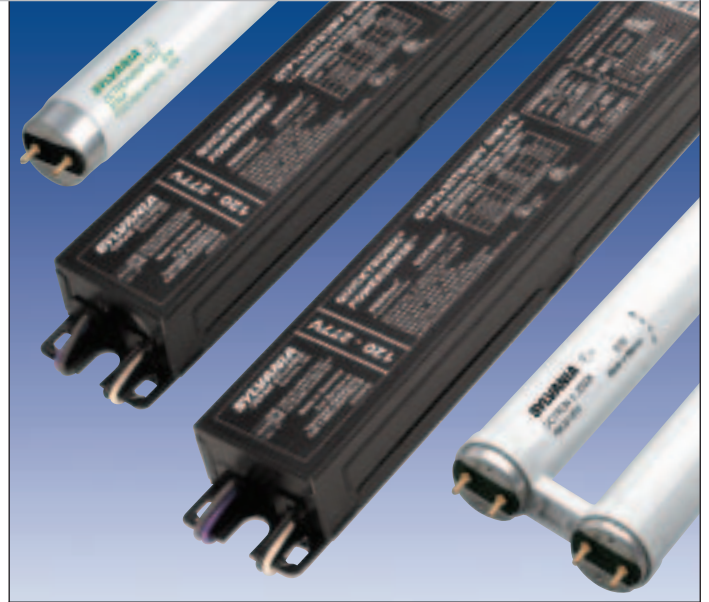
- Occupancy sensors
- Daylight harvesting
- Energy management
- Load shedding
- Commercial
- Retail
- Hospitality
- Institutional
- Schools
- New construction
- Retrofit

#### SYLVANIA QUICKTRONIC

**POWERSENSE** ballasts operate linear fluorescent T8 lamps over a wide (100 - 5%) dimming range and provide true versatility in controls selection.

QUICKTRONIC POWERSENSE ballasts feature micro-controller technology to offer the industry's most adaptable dimming ballast. Compatibility with low voltage controls, power line dimmers and any line voltage from 120V to 277V, provides the flexibility to greatly simplify the specification, purchasing and installation process.

All SYLVANIA Professional Series (QTP) electronic ballasts feature high power quality (<10% THD), lightweight, low profile designs.



Setting the standard for quality, QUICKTRONIC POWERSENSE is covered by our QUICK 60+®

warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

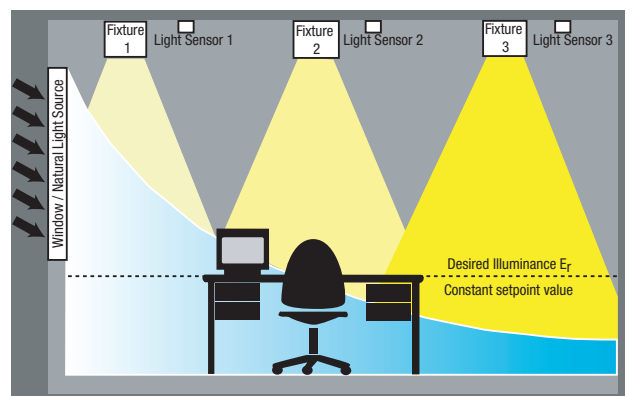
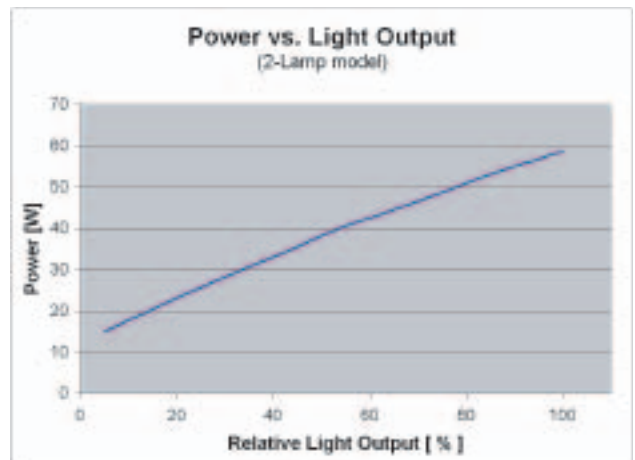
### System Information

QUICKTRONIC POWERSENSE ballasts operate from standard low voltage (0-10VDC) fluorescent controllers or compatible 2-wire power line fluorescent dimmers, making them ideal for individual office lighting or automated building applications, both in new construction and retrofit projects.

For the individual office or conference room, installation can be streamlined by using a 2-wire power line dimmer; eliminating the need for additional control wires.

For more advanced systems, such as daylight harvesting or building automation applications, standard low voltage devices (0-10VDC, Class 1 or 2) are used to control the lighting system. In this daylight harvesting example, each lighting fixture (or fixture row) is controlled by its own photosensor; regulating the light output to compensate for changes in natural daylight. Depending upon the specific application, energy savings of up to 60% compared to fixed output T8 electronic systems can be realized.

All QUICKTRONIC POWERSENSE models include a line voltage protection circuit, which protects the ballast in the event that line voltage is inadvertently applied to the low voltage control inputs.



# POWERSENSE™ T8 DIMMING

## Electronic T8 Fluorescent Controllable Lighting Systems

Item Number	Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Input Power (Watts)	System Efficacy (lm/W)
50705	QTP 1x32T8/UNV DIM-TC	120-277	0.27/0.12	F032XP	3000	1	0.88 0.05	2640 150	30 8	88
50707	QTP 2x32T8/UNV DIM-TC	120-277	0.54/0.24	F032XP	3000	2	0.88 0.05	5280 300	61/59 15	87/90
50714	QTP 3x32T8/UNV DIM	120-277	0.78/0.34	F032XP	3000	3	0.88 0.05	7920 450	90 20	88
50716	QTP 4x32T8/UNV DIM	120-277	1.02/0.44	F032XP	3000	4	0.88 0.05	10560 600	120 25	88

### Dimensions:

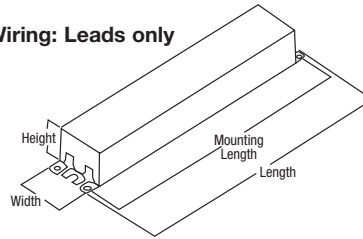
#### 1 & 2 lamp enclosure

Overall: 9.5" L x 1.68" W x 1.0" H (241 x 43 x 25 mm)  
Mounting: 8.90" (226 mm)  
Weight: 1.1 lbs each (500 g)

#### 3 & 4 lamp enclosure

Overall: 16.7" L x 1.68" W x 1.0" H (425 x 43 x 25 mm)  
Mounting: 16.2" (411 mm)  
Weight: 2.1 lbs each (950 g)

### Wiring: Leads only



## Performance Guide

Data shown based upon SYLVANIA OCTRON® F032/XP lamp(s). QUICKTRONIC® POWERSENSE™ ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications and SYLVANIA fluorescent dimming specifications.

## Specifications

**Starting Method:** Programmed Rapid Start

**Circuit Type:** Series

**Lamp Frequency:** >40 KHz

**Lamp CCF:** Less than 1.7

**Starting Temp:** 50°F/10°C minimum

**Input Voltage:** 120-277V, +/-10%

**Input Frequency:** 50/60 Hz

**THD:** <10% @ full Output

**Power Factor:** >98% @ full Output

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

Remote Mounting up to 8 feet

Specifications subject to change

without notice.

## Control Information

QUICKTRONIC POWERSENSE ballasts are compatible with a wide range of low voltage (0-10VDC) and power line controllers available from various manufacturers. Please contact OSRAM SYLVANIA for the list.

### Low Voltage Control Specs:

Ballast will source up to 0.5mA for 0-10VDC control purposes. May be wired as a Class 1 or Class 2 circuit-consult Local and National Electrical Codes.

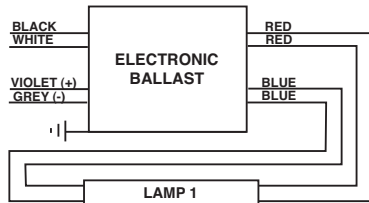
### Power Line Control Specs:

Specification-grade controls are available for 120V or 277V operation of controllable analog electronic fluorescent ballasts. Controls must be suitably rated for both the type (e.g. Phase-control) and size (e.g. 600W) of the connected load.

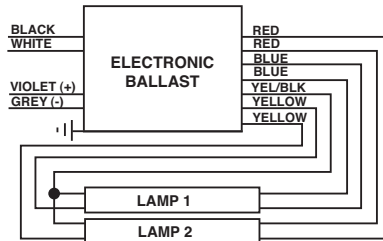
## Ordering Guide

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

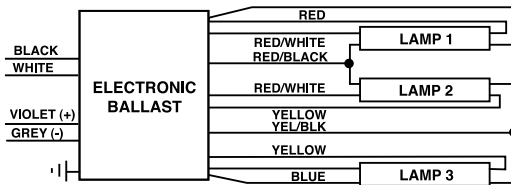
### 1 lamp



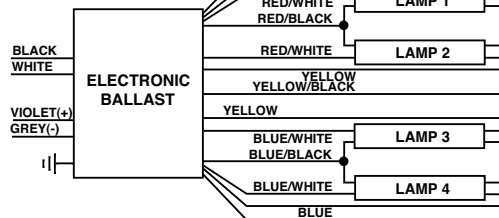
### 2 lamp



### 3 lamp

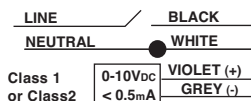


### 4 lamp



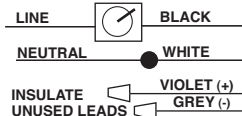
### Input & Control Wiring Options:

#### LOW-VOLTAGE CONTROL



Class 1 or Class2 0-10Vdc < 0.5mA

#### POWERLINE CONTROL



INSULATE UNUSED LEADS

Item Number \_\_\_\_\_ 50707 QTP 2 x 32T8 / UNV DIM-TC \_\_\_\_\_ System Type - DIMMING/Case Size  
QUICKTRONIC PROFESSIONAL \_\_\_\_\_ Line Voltage (120V to 277V)  
Number of Lamps (1, 2, 3, 4) \_\_\_\_\_ Primary Lamp Wattage