

Electronic T8 Fluorescent Controllable Lighting Systems

QUICKTRONIC® HELIOS™ T8 DIMMING (0-10V control)

Professional Series

Lamp/Ballast Guide

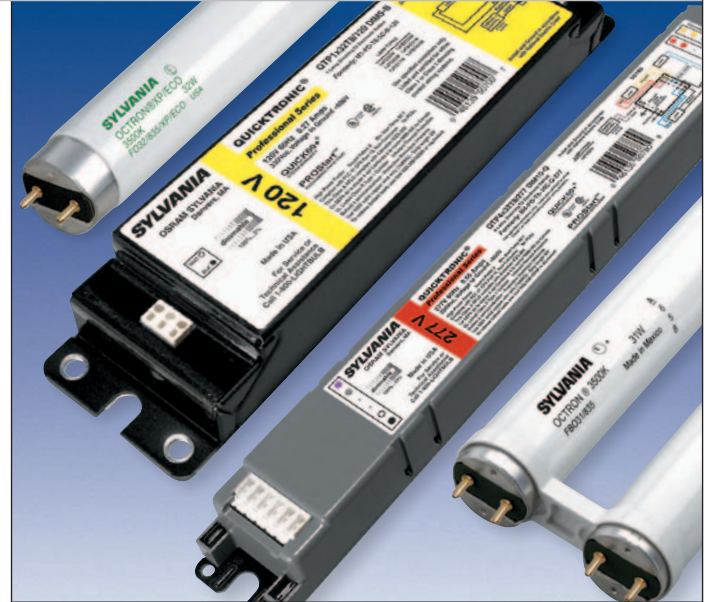
- 32W T8
- 1-lamp QTP1x32T8/DIM5
 - 2-lamp QTP2x32T8/DIM5
 - 3-lamp QTP3x32T8/DIM5
 - 4-lamp QTP4x32T8/DIM10

Also operates:
FBO32, FBO31

SYLVANIA QUICKTRONIC HELIOS dimming electronic ballasts operate linear and U-bend equivalent T8 lamps over a wide (100–5%) dimming range.

QUICKTRONIC HELIOS ballasts are controlled via standard 0-10Vdc fluorescent dimmers, and are ideal for both energy management and architectural applications.

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



Setting the standard for quality, QUICKTRONIC HELIOS is also covered by our QUICK 60+ warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

Key System Features

- 100–5% Dimming Range*
- PROStart® Programmed Rapid Start
- QUICK 60+® ballast and lamp warranty
- Control may be wired for either Class 1 or Class 2 application
- Lightweight design
- Wiretrap connectors – available with or without leads pre-inserted
- Operates at >42kHz to reduce potential IR interference

* 100–10% for 4 lamp models

QUICKTRONIC HELIOS ballasts are optimized for use with 32WT8 lamps. The 2, 3, and 4 lamp models operate the 32W (linear and U-bend) lamps only. The 1 lamp models will operate F17, F25, and F32T8 lamps (and equivalent U bend versions).

Application Information

SYLVANIA QUICKTRONIC HELIOS

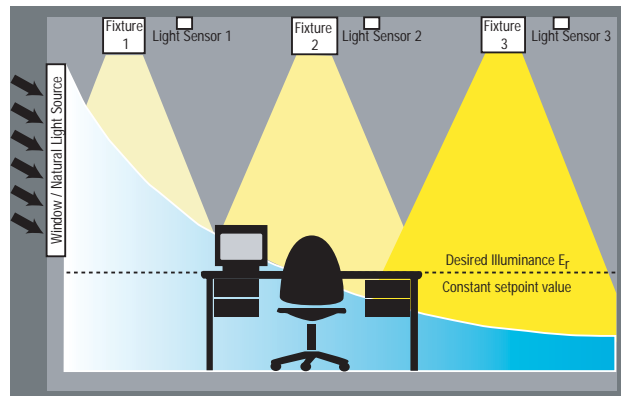
is ideally suited for:

- Daylight Harvesting
- Energy Management
- Load Shedding
- A/V presentation rooms
- Conference rooms
- Occupancy Sensors
- Creative lighting design applications

For optimal dimming performance, fluorescent lamps may require seasoning for up to 100 hours before dimming to lowest light levels.

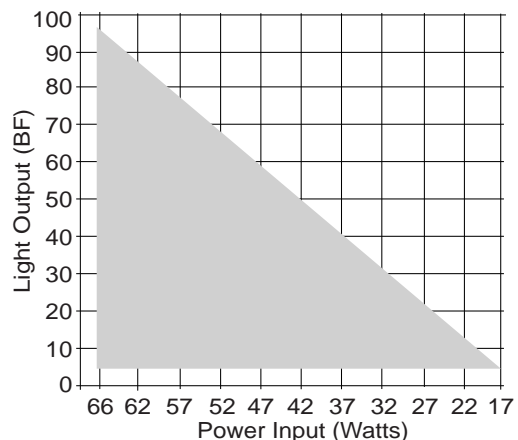
System Information

QUICKTRONIC HELIOS Dimming T8 systems can be used in Daylight Harvesting applications to maintain a pre-set light level. In this example, each lighting fixture is controlled by its own photo-sensor which regulates 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 HELIOS models include a line voltage protection circuit, which protects the ballast in the event that line voltage is inadvertently applied to the control inputs.

QTP2x32T8DIM



HELIOS™ 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) |
|-------------|------------------------|---------------------|----------------------|-----------|-------------------|--------------|---------------------|---------------|---------------------|------------------------|
| 50700 | QTP 1x32T8/120 DIM5-B | 120 | 0.27 | F032XP | 3000 | 1 | 0.94 0.05 | 2820 150 | 32 8 | 88 |
| 50710 | QTP 1x32T8/277 DIM5-B | 277 | 0.12 | F032XP | 3000 | 1 | 0.94 0.05 | 2820 150 | 32 8 | 88 |
| 50720 | QTP 2x32T8/120 DIM5-B | 120 | 0.57 | F032XP | 3000 | 2 | 0.94 0.05 | 5640 300 | 66 17 | 85 |
| 50730 | QTP 2x32T8/277 DIM5-B | 277 | 0.25 | F032XP | 3000 | 2 | 0.94 0.05 | 5640 300 | 66 17 | 85 |
| 50750 | QTP 3x32T8/120 DIM5-Q | 120 | 0.78 | F032XP | 3000 | 3 | 0.88 0.05 | 7920 450 | 93 23 | 85 |
| 50760 | QTP 3x32T8/277 DIM5-Q | 277 | 0.34 | F032XP | 3000 | 3 | 0.88 0.05 | 7920 450 | 93 23 | 85 |
| 50770 | QTP 4x32T8/120 DIM10-Q | 120 | 1.10 | F032XP | 3000 | 4 | 0.88 0.10 | 10560 1200 | 120 38 | 88 |
| 50780 | QTP 4x32T8/277 DIM10-Q | 277 | 0.55 | F032XP | 3000 | 4 | 0.88 0.10 | 10560 1200 | 120 38 | 88 |

Performance Guide

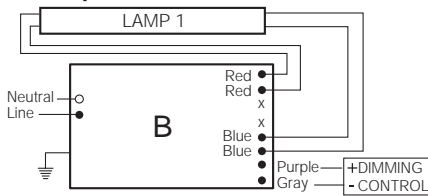
Data shown based upon SYLVANIA OCTRON® F032/XP™ lamp(s). QUICKTRONIC® HELIOS ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

1 lamp QUICKTRONIC HELIOS ballasts will operate F17, F25, and F32T8 lamps (and equivalent U bend versions). The 2, 3, and 4 lamp models operate the 32W (linear and U-bent) lamps only.

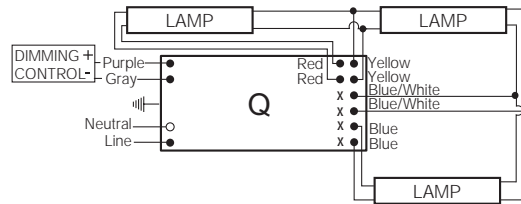
Specifications

Starting Method: Programmed Rapid Start
Circuit Type: Series
Lamp Frequency: > 40 KHz
Lamp CCF: Less than 1.7
Starting Temp.: 60°F min.
Input Frequency: 60 Hz
Low THD: < 10% @ full Output
 < 20% @ full Dim
Power Factor: > 99% @ full Output
 > 95% @ full Dim
Voltage Range: +/-10%
 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 7 feet

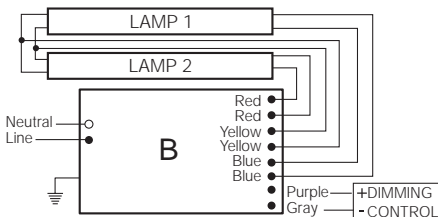
1 lamp



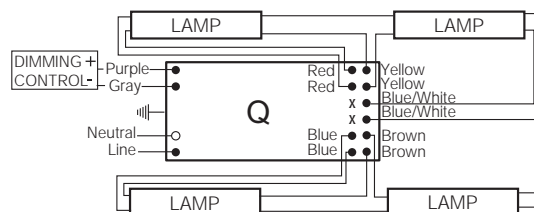
3 lamp



2 lamp

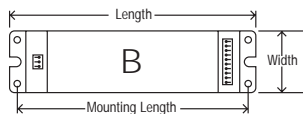


4 lamp



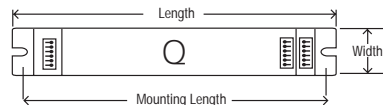
Dimensions "B" Enclosure:

Overall: 9.5" L x 2.38" W x 1.25" H
 Mounting: 8.91"
 Weight: 1.3 lbs



Dimensions "Q" Enclosure:

Overall: 14.0" L x 1.6" W x 1.0" H
 Mounting: 13.5"
 Weight: 1.0 lbs



Control Information

QUICKTRONIC HELIOS ballasts are compatible with a wide range of 0-10V controllers available from various manufacturers. A list of compatible controllers is on pages 42-43. (Controls list literature ordering code ECS041.)

Control Specifications:
 1 - 10V (dc) two wire control.
 Ballast will source up to 0.5mA for control purposes. May be wired as Class 1 or Class 2 circuit - consult Local and National Electrical Codes

Wiring/Packaging Configurations: All HELIOS products are available in the following packaging/wiring configurations:

| Last Digit of Item Code | Configuration | Description Suffix |
|-------------------------|--|--------------------|
| 0 | Dist. Pack, Leads Pre-Inserted | None (no suffix) |
| 1 | Dist. Pack, Connectors Only (No Leads) | NL |
| 2 | OEM Pack, Leads Pre-Inserted | OEM |
| 3 | OEM Pack, Connectors Only (No Leads) | OEM NL |

Item Code: 5070(#)
 QUICKTRONIC PROFESSIONAL
 Number of Lamps (1, 2, 3, 4)
 Primary Lamp Type (F32T8)

QTP 1 x 32T8 / 120 DIM5 B (suffix)
 Enclosure Type (B)
 System Type - 100-5% Dimming
 Line Voltage

Ordering Guide

Specifications subject to change without notice.