

QUICKTRONIC® HELIOS™ CF UNV Dimming Systems



Compact Fluorescent Controllable Lighting Systems

Professional Series

Lamp / Ballast Guide

Primary Systems

26W T4 - DULUX D/E, T/E
1 or 2 lamp QTP2X26CF/UNV DIM-DM

Also operates:

13W T4 - DULUX D/E, T/E (1 or 2 lamps)
18W T4 - DULUX D/E, T/E (1 or 2 lamps)
32W T4 - DULUX T/E (1 lamp)
42W T4 - DULUX T/E (1 lamp)

SYLVANIA QUICKTRONIC HELIOS CF dual entry dimming ballasts operate DULUX® D/E and T/E lamps with full lumen output and optimal system performance over a wide dimming range (100% to 3%).

This ballast features one mounting style of low profile, lightweight enclosures to provide simple assembly for any fixture application.

Universal input voltage (120–277V) and multi-lamp multi-watt capability allow for fewer SKUs to support a wide range of applications.

Dual entry, color coded, wire trap connectors located on the side and bottom allow for increased mounting flexibility with one ballast and also increased ease of installation.

QUICKTRONIC HELIOS CF ballasts are



RoHS compliant and feature lead-free solder and manufacturing process.

Setting the standard for quality, QUICKTRONIC HELIOS CF dual entry

dimming systems are covered by the QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

Key System Features

- Universal input voltage (120-277V)
- Dual entry, color coded connectors
- PROStart® program rapid start ballast
- QUICKSENSE® ballast technology
- High power factor
- Low harmonic distortion
- Small size and lightweight
- Metal enclosure
- UL, CSA, FCC
- QUICK 60+ warranty
- 100%-3% dimming range
- 0-10V control
- Anti-flash circuitry - turns on in dimmed mode
- RoHS compliant
- Lead-free solder and manufacturing process

System Information

QUICKTRONIC HELIOS ballasts operate standard low voltage (0-10VDC) controllers making them ideal for applications such as daylight harvesting or building automation applications where standard low voltage devices (0-10VDC, Class 1 or 2) are used to control the lighting system.

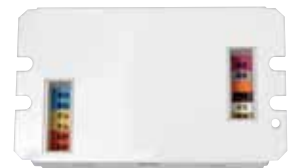
PROStart programmed rapid start is the optimum starting method, providing up to 100,000 switching cycles for use on occupancy sensors and building control systems.

QUICKSENSE® end-of-lamp-life sensing technology helps to protect against overheated bases and sockets, as well as cracking of the glass wall. QUICKSENSE ballast technology uses

QTP2x26CF/UNV DIM-DM Metal Case

Dual Entry Metal with Side & Bottom Mount Capabilities

dynamic end-of-lamp-life sensing to avoid false shutdowns caused by some static sensing methods and will auto-reset when the end-of-life lamps are replaced with new ones.



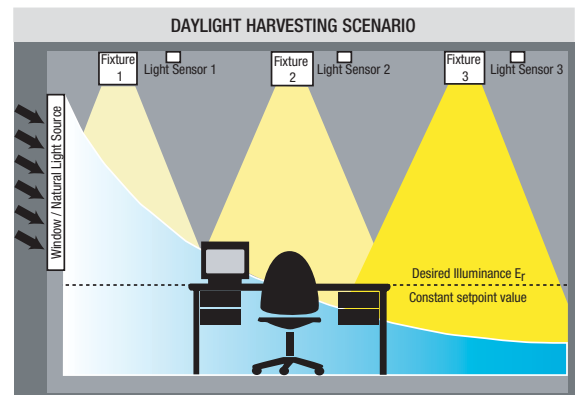
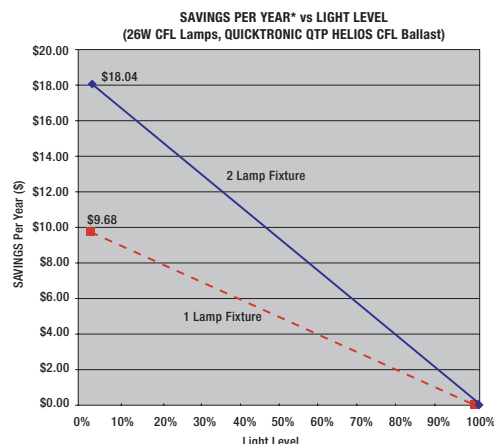
A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics of lamps and ballasts is available upon request.

QTP CF DIM

Application Information

SYLVANIA QUICKTRONIC CF ballasts are ideally suited for:

- Recessed downlights
- Wall sconces
- Ceiling fixtures
- Commercial
- Retail, hospitality, institutional
- Occupancy sensors
- Daylight harvesting
- Energy management
- Load shedding



SPECIFICATION DATA

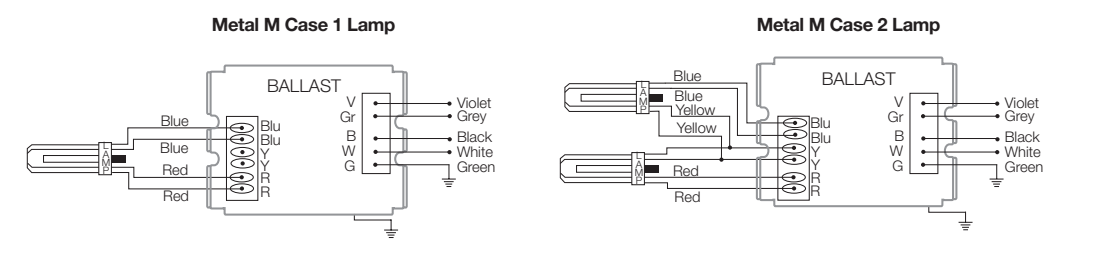
Catalog #	Date	Type
Project	Prepared by	
Comments		

HELIOS™ (0-10V) CF Fluorescent Dimming Systems, UNV (120-277V)



Item Number	OSRAM SYLVANIA Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System ¹ Efficacy (lm/W)	BEF ²
51836	QTP2x26CF/UNV DIM-DM (20-pack)	0.44/0.19	26W DD/E, DT/E	1800	2	1.00 0.03	3600 110	3095 95	53/53 12/12	68	1.89
		0.32/0.14	18W DD/E, DT/E	1200	2	1.00 0.03	2400 70	2065 60	38/37 10/10	65	2.70
		0.26/0.11	13W DD/E, DT/E	900	2	1.00 0.03	1800 55	1550 45	30/30 8/8	60	3.33
		0.39/0.17	42W DT/E	3200	1	1.00 0.03	3200 95	2750 85	46/46 7/7	70	2.17
		0.29/0.13	32W DT/E	2400	1	1.00 0.03	2400 70	2065 60	34/34 7/7	71	2.94
		0.24/0.11	26W DD/E, DT/E	1800	1	1.00 0.03	1800 55	1550 45	29/29 7/7	62	3.45
		0.17/0.08	18W DD/E, DT/E	1200	1	1.00 0.03	1200 35	1030 30	21/21 6/6	57	4.76
		0.14/0.07	13W DD/E, DT/E	900	1	1.00 0.03	900 25	775 20	17/17 5/5	53	5.88

¹ System Efficacy calculation based on lowest input power value.
² Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).
 ☉ Preliminary specification. Please contact OSRAM SYLVANIA.



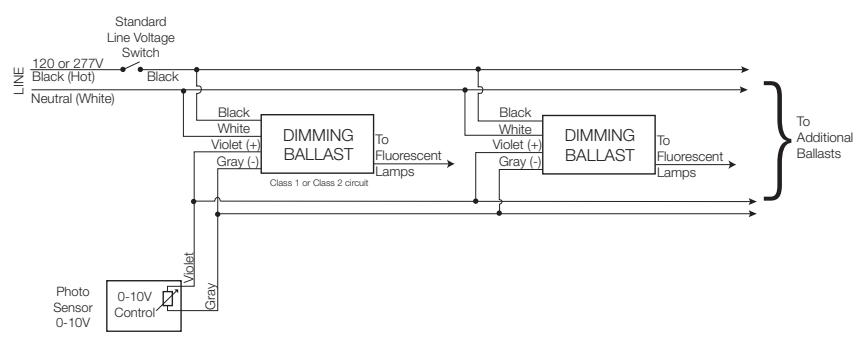
Dimensions:
 Metal case: 4.95" L x 2.93" W x 1.35" H (125mm L x 74mm W x 34mm H)
 Mounting: Utilize flanges (4.57" L), or (2) #8-32 x 0.375" Long

Wiring:
 Push-in connectors (no leads provided)
 Use 18AWG solid copper wire only

Packaging:
 Quantity: 20 pieces per case
 Weight: 1.30 lbs ea. (metal case)

Refer to pages 126-127 for controls & wiring information

Photo Sensor 0-10VDC Wiring Example



Item Number **51836 QTP 2 x 26 CF / UNV DIM DM** System Type - Dimming/Dual Mount
 QUICKTRONIC PROFESSIONAL Line Voltage (120-277V)
 Number of Lamps (1, 2) Primary Lamp Wattage

Specifications subject to change without notice.

CF HELIOS™ (0-10V)

Professional Series

Performance Guide

Data provided is based on testing done using SYLVANIA DULUX® T/E series 4 pin lamps shown. QUICKTRONIC CF HELIOS ballasts are compatible with other lamp manufacturers equivalent lamp types that meet ANSI standards.

Specifications

- Starting Method:** Programmed Rapid Start
- Circuit Type:** Series
- Lamp Frequency:** >42 kHz
- Lamp CCF:** Less than 1.7
- Starting Temp:** 50°F/10°C min.³
- Input Frequency:** 50/60 Hz
- Low THD:** <10%
- Power Factor:** >98%
- Voltage Range:** ±10% of 120-277V

- UL Listed Class P, Type 1 Outdoor
- CSA or C/UL Certified
- 75°C Max Case Temp. (5 yr. warranty)
- FCC 47CFR Part 18 Non-Consumer
- Sound Rated A
- 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 24 inches.
- RoHS Compliant⁴

³ Operation below 50°F (10°C) may affect light output or lamp operation – see Low Temperature Starting definition.

⁴ Complies with European Union Restriction of Hazardous Substances Directive. (Directive 2002/95/EC)

Control Information

Dimming Control: 0-10VDC two wire control (10V = full output, 0V = minimum output)

QUICKTRONIC HELIOS™ ballasts are compatible with a wide range of 0-10V controllers available from various manufacturers.

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.

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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QTP CF DIM