

Electronic Compact Fluorescent Digital Dimming Systems

QUICKTRONIC® CF DALI

Professional Series

Lamp/Ballast Guide

18W T4 – DULUX D/E, T/E
1-lamp QTP1x18CF/UNV DALI
2-lamp QTP2x18CF/UNV DALI
26W T4 – DULUX D/E, T/E
1-lamp QTP1x26CF/UNV DALI
2-lamp QTP2x26CF/UNV DALI
32W T4 – DULUX D/E, T/E
1-lamp QTP1x32CF/UNV DALI
2-lamp QTP2x32CF/UNV DALI
42W T4 – DULUX T/E
1-lamp QTP1x42CF/UNV DALI
2-lamp QTP2x42CF/UNV DALI
40W TT5 – DULUX L
1-lamp QTP1x40TT5/UNV DALI
2-lamp QTP2x40TT5/UNV DALI

Key System Features

- Digital Addressable Control
- Individual control of fixtures
- Up to 16 groups and scenes
- 100 – 3% Dimming Range
- Programmable fade rates
- Universal voltage (120-277)
- Programmed rapid start
- Anti-flash circuitry
- End-Of-Lamp-Life Sensing
- Wiretrap connectors
- Control may be wired for Class 1 or Class 2 applications
- UL, cUL, FCC
- QUICK 60+® ballast and lamp warranty

Application Information

SYLVANIA QUICKTRONIC

DALI is ideally suited for:

- Energy Management
- Load Shedding
- Daylight Harvesting
- Occupancy sensors
- Conference rooms
- All size offices
- Creative lighting designs

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

SYLVANIA QUICKTRONIC

DALI Dimming combines digital control technology with full-range continuous dimming to provide a new level of lighting system performance. This allows for greater flexibility and control of the lighting environment than can be achieved with traditional 0-10VDC dimming systems. The communications protocol is “DALI”, an acronym for “Digital Addressable Lighting Interface”. This is a worldwide standard for digital lighting control that has been accepted by all the leading lighting suppliers.

SYSTEM CF-DALI controls DULUX® L, D/E and T/E 4-pin Compact Lamps over a wide range of light level settings, from 100 – 3% (ballast factor 1.0 – .03). Control wiring is simplified by two polarity-free connections that can be routed in the same raceway as power wires.

System Information

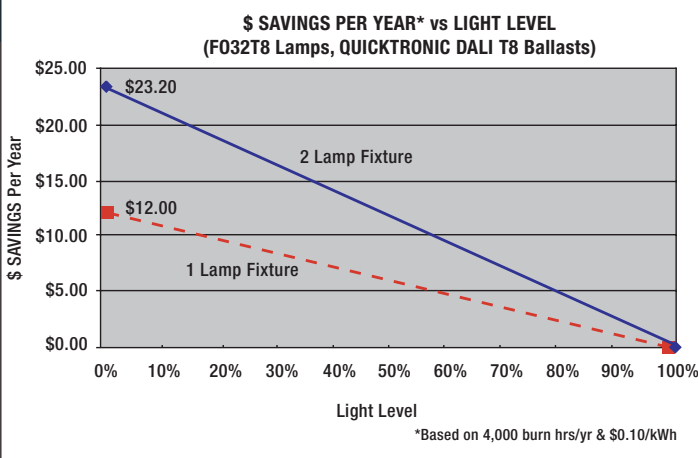
Programmed rapid start ballasts provide optimum starting conditions to provide up to 100,000 switching cycles for use on occupancy sensor and building control system applications. Individual addressability allows the user to dim any particular fixture or groups of fixtures at one time. Simple controller programming steps allow for:

1. Fade rates, dim levels, time of day, groups and scenes to be customized.
2. Flexibility in grouping fixtures; no need to re-wire fixtures when groups need to be changed.
3. Systems are scalable and can be expanded anytime user needs change, without the need for costly re-wiring. Additional fixtures are added to groupings simply by means of software.



SYSTEM CF-DALI is available in one and two lamp models that operate from 120V through 277V, eliminating “wrong voltage” wiring errors and reducing the number of models in inventory by half.

Setting the standard for quality, SYSTEM CF-DALI is also covered by our QUICK 60+, warranty, the first and most comprehensive system warranty in the industry.



QUICKTRONIC DALI systems can be integrated with Building Management Systems (BMS) by installing gateways that translate between the DALI and BMS systems.

When used in conjunction with appropriate controls, feedback can be obtained on operating conditions, such as operating hours, light-level or failed lamps.

This lamp fault-reporting feature can save significant cost by quickly identifying the location, especially in large facilities or in applications where lamps are concealed by lenses.

Specification of DALI compatible gateways, controls and ballasts ensure flawless operation of the lighting system.

Electronic DALI CF/DL40 (40TT5) Fluorescent Controllable Lighting Systems

Performance Guide

Data shown based upon SYLVANIA DULUX lamp(s). QUICKTRONIC DALI ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

Specifications

Starting Method: Programmed Rapid-Start
Circuit Type: Series
Lamp Frequency: >40kHz
Lamp CCF: <1.7
Starting Temp: 50°F min.
Voltage Range: 108-305V
Input Frequency: 50/60 Hz
THD: <10% @ full output
Power Factor: >95% @ full output

UL Listed Class P, Indoor
 cUL or CSA Certified
 Temp. Test Point (Tc) on ballast label:
 All CF models: 75°C max
 1 lamp DL model: 70°C max
 2 lamp DL model: 75°C max.
 FCC 47CFR Part 18 Non-Consumer
 Class A Sound Rating
 ANSI C62.41 Cat. A
 Transient Protection

Control Information

QUICKTRONIC DALI ballasts are compatible with DALI digital controllers available from various manufacturers. For a list of DALI control manufacturers, please contact OSRAM SYLVANIA.

Refer to pages 74 & 75 for controls information.

Control Specifications:
 Two wire non-polarized control. May be wired as a Class 1 or Class 2 circuit, consult Local and National Electrical Codes.

Ordering Guide

Specifications subject to change without notice.

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)
51370	QTP 1x18CF/UNV DALI	120-277	0.18/0.08	18W DD/E, T/E	1200	1	1.00 0.03	1200 35	20	60
51372	QTP 2x18CF/UNV DALI	120-277	0.33/0.14	18W DD/E, T/E	1200	2	1.00 0.03	2400 70	39/38	61/63
51375	QTP 1x26CF/UNV DALI	120-277	0.24/0.10	26W DD/E, T/E	1800	1	1.00 0.03	1800 55	28	64
51377	QTP 2x26CF/UNV DALI	120-277	0.49/0.22	26W DD/E, T/E	1800	2	1.00 0.03	3600 110	55/54	65/67
51380	QTP 1x32CF/UNV DALI	120-277	0.34/0.15	32W DT/E	2400	1	1.00 0.03	2400 70	38	63
51382	QTP 2x32CF/UNV DALI	120-277	0.60/0.26	32W DT/E	2400	2	1.00 0.03	4800 140	71/70	68/69
51384	QTP 1x42CF/UNV DALI	120-277	0.43/0.19	42W DT/E	3200	1	1.00 0.03	3200 95	49	65
51386	QTP 2x42CF/UNV DALI	120-277	0.82/0.36	42W DT/E	3200	2	1.00 0.03	6400 190	92/91	69/70
51390	QTP 1x40TT5/UNV DALI	120-277	0.41/0.17	40W DL	3150	1	1.00 0.03	3150 95	45/44	70/72
51392	QTP 2x40TT5/UNV DALI	120-277	0.83/0.37	40W DL	3150	2	1.00 0.03	6300 190	97/94	65/67

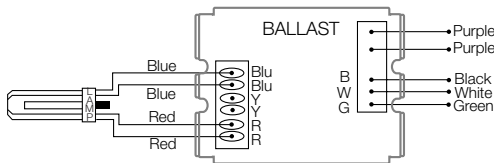
CF Dimensions, Packaging & Wiring:

Units	L	ML	W	H
inches	4.95	4.57	2.93	1.35
mm	125.7	116.1	74.4	34.3

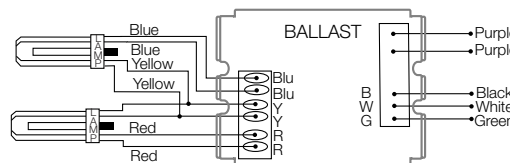
Packaging:

Quantity: 10 pieces/case
 Weight: 1.1 lbs each (approx.)

Metal Case 1 Lamp



Metal Case 2 Lamp

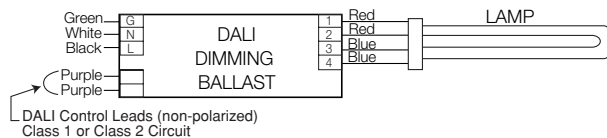


DL Dimensions, Packaging & Wiring:

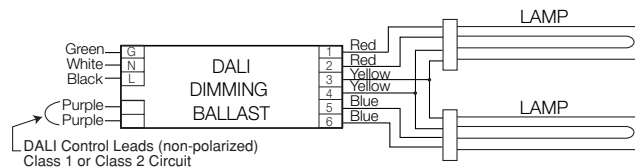
Units	L	ML	W	H
inches	18.05	17.70	1.18	1.18
mm	458.5	449.6	30.0	30.0

Packaging:

Quantity: 25 pieces/case
 Weight: 1.2 lbs each (approx.)



DL40 1-Lamp DALI



DL40 2-Lamp DALI

Item Number — 51377 QTP 2 x 26CF / UNV DALI — System Type - DALI
 QUICKTRONIC PROFESSIONAL — Line Voltage (120-277V)
 Number of Lamps — Primary Lamp Wattage