

QUICKTRONIC® DALI CF UNV Dimming Systems

Professional Series

CF DALI

Lamp / Ballast Guide*

18W T4 – DULUX D/E, T/E lamps
1-lamp QTP1x18CF/UNV DALI
2-lamp QTP2x18CF/UNV DALI

26W T4 – DULUX D/E, T/E lamps
1-lamp QTP1x26CF/UNV DALI
2-lamp QTP2x26CF/UNV DALI

32W T4 – DULUX D/E, T/E lamps
1-lamp QTP1x32CF/UNV DALI

42W T4 – DULUX T/E lamps
1-lamp QTP1x42CF/UNV DALI
2-lamp QTP2x42CF/UNV DALI

40W TT5 – DULUX L lamps
1-lamp QTP1x40TT5/UNV DALI
2-lamp QTP2x40TT5/UNV DALI

* Not to be used with Energy Saving lamps

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 (120/277V)
- 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 ballasts

are ideally suited for:

- Energy management
- Load shedding
- Daylight harvesting
- Occupancy sensors
- Zone and scene control

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 ballasts combine 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 open standard for digital lighting control that has been accepted by all the leading lighting suppliers.

These ballasts operate DULUX® L, D/E and T/E 4-pin compact fluorescent lamps over a wide range of dimming, 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

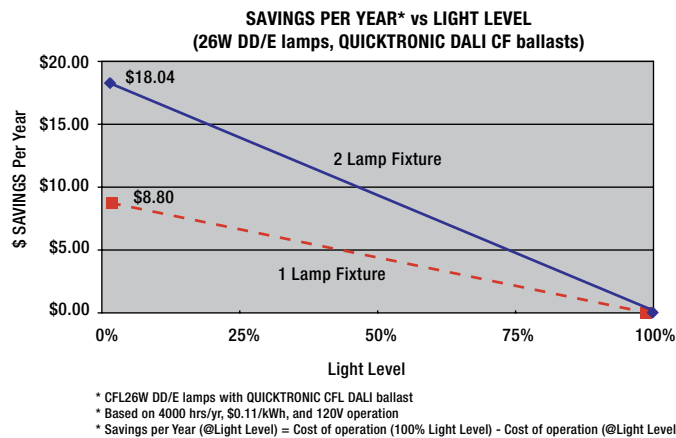
Programmed rapid start ballasts provide optimum starting conditions to provide up to 100,000 switching cycles for use on occupancy sensor and building control system applications. The DALI protocol offers individual addressability and allows the user to dim any particular fixture or groups of fixtures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

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



The QUICKTRONIC DALI CF Dimming ballasts are available in one and two lamp models that operate at 120V or 277V input line voltage, eliminating "wrong voltage" wiring errors and reducing the number of models in inventory by half.

Setting the standard for quality, the QUICKTRONIC DALI CF Dimming Systems are covered by the 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.

DALI offers a two-way communication exchange. The DALI system allows communication to the ballast and the ballast to communicate back via the appropriate controls. Monitoring 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.

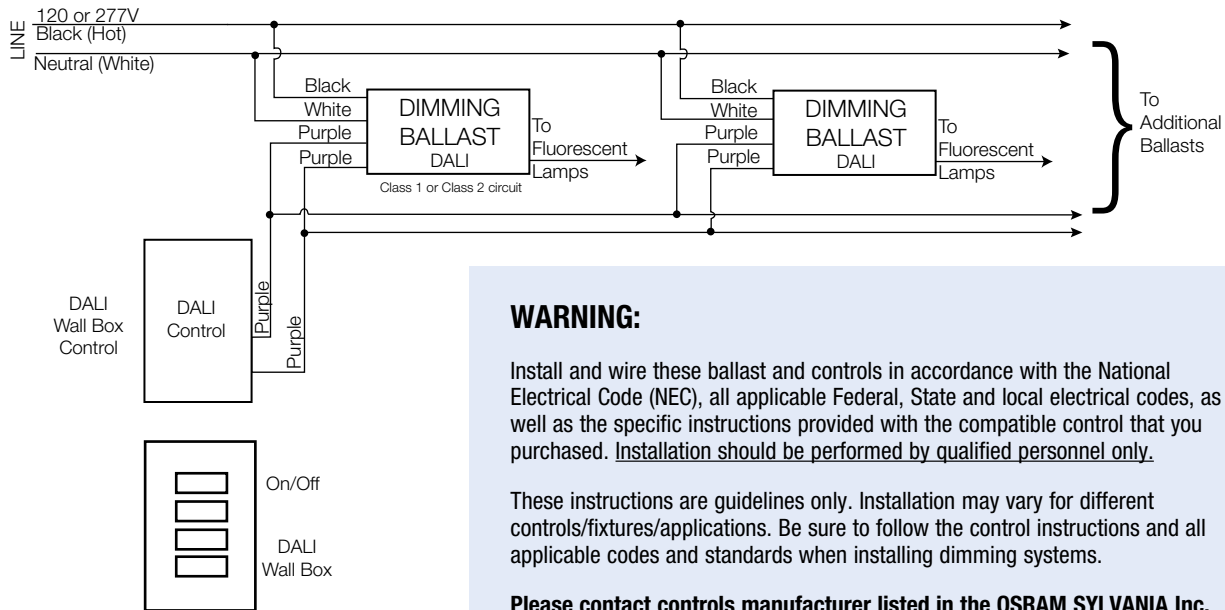
QUICKTRONIC® DALI DIGITAL DIMMING

DALI Control with DALI Ballasts

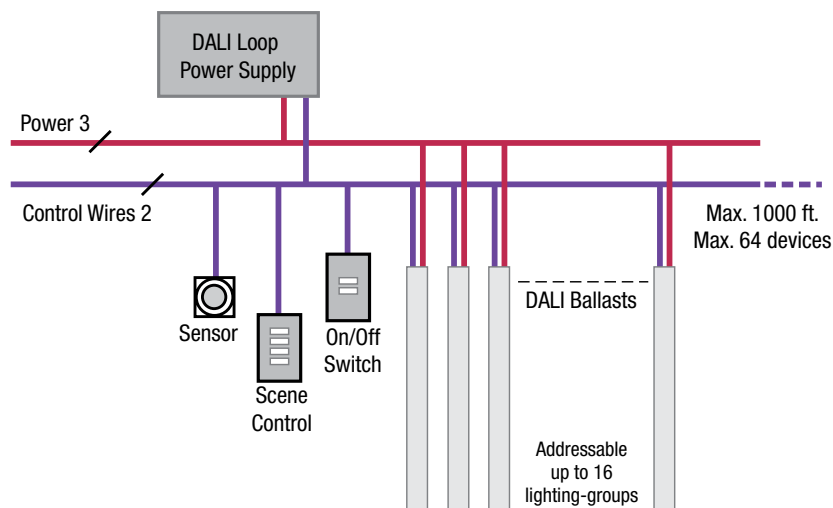
Wallbox Style Control Wiring Example

DALI CONTROLS & WIRING

DALI Control with DALI Ballasts



Network - Localized Control



SPECIFICATION DATA

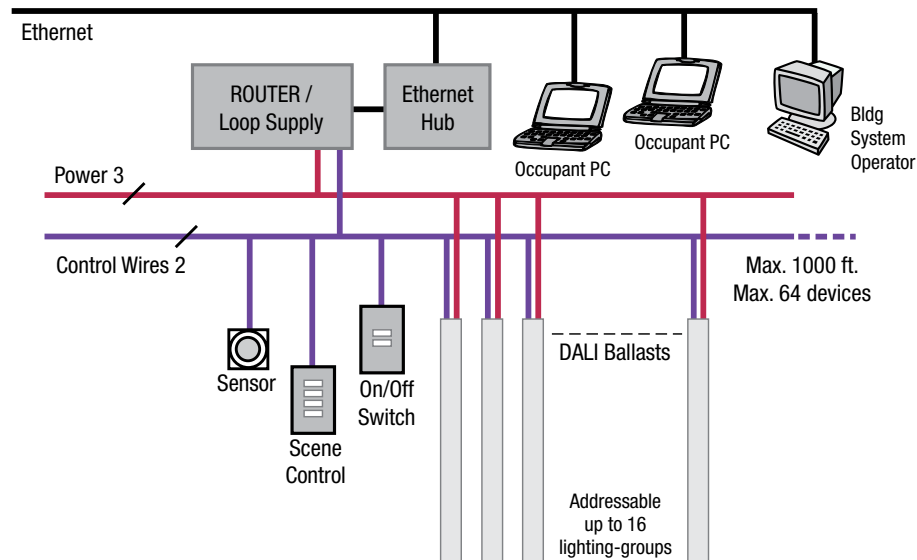
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Project _____ Prepared by _____

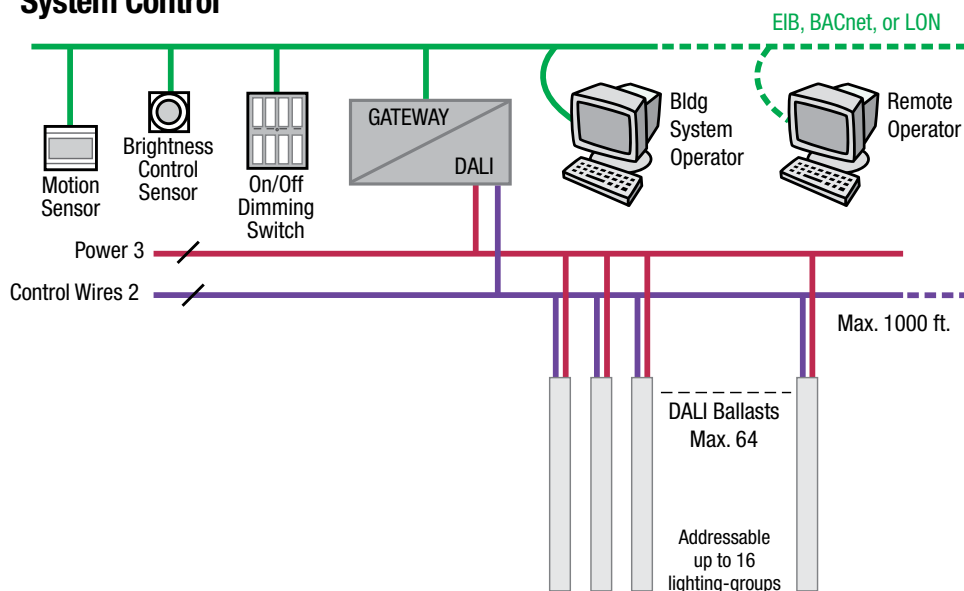
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DALI Control Wiring Examples

Network - Localized + LAN control



Network - Localized + Building Management System Control



Control Specifications/model numbers may change. Please consult manufacturers listed for their latest DALI control models and to order their controls.

DALI Control

Manufacturers

Controls Guide

Encelium Lighting Controls
<http://www.encelium.com>

Siemens Building Technology
www.sbt.siemens.com

Cooper
<http://greengate.coopercontrol.com>

Creston
www.creston.com

Hunt Dimming
www.huntdimming.com

Leviton
www.leviton.com

Starfield Controls
www.starfieldcorp.com

Watt Stopper
www.wattstopper.com

Reference

Please contact controls manufacturers to order/specify controls.

For the latest controls list go to www.sylvania.com

Also for more information, check out the LCA (Lighting Controls Association) site: www.aboutlightingcontrols.org

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SPECIFICATION DATA

Catalog #	Date	Type
Project	Prepared by	
Comments		

Electronic DALI CF/DL40 (40TT5) 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)	BEF ¹
51370	QTP1x18CF/UNV DALI	120/277	0.18/0.08	18W DD/E, T/E	1200	1	1.00 0.03	1200 35	20	60	5.00
51372	QTP2x18CF/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	2.63
51375	QTP1x26CF/UNV DALI	120/277	0.24/0.10	26W DD/E, T/E	1800	1	1.00 0.03	1800 55	28 8	64	3.57
51377	QTP2x26CF/UNV DALI	120/277	0.49/0.22	26W DD/E, T/E	1800	2	1.00 0.03	3600 110	55/54 14	65/67	1.85
51380	QTP1x32CF/UNV DALI	120/277	0.34/0.15	32W DT/E	2400	1	1.00 0.03	2400 70	38 10/11	63	2.63
51384	QTP1x42CF/UNV DALI	120/277	0.43/0.19	42W DT/E	3200	1	1.00 0.03	3200 95	50 11/13	64	2.00
51386	QTP2x42CF/UNV DALI	120/277	0.82/0.36	42W DT/E	3200	2	1.00 0.03	6400 190	100/98 17/19	64/65	1.10
51390	QTP1x40TT5/UNV DALI	120/277	0.41/0.17	40W DL	3150	1	1.10 0.03	3465 105	45/44	77/79	2.44
51392	QTP2x40TT5/UNV DALI	120/277	0.83/0.37	40W DL	3150	2	1.20 0.03	7565 225	97/94	78/80	1.24

¹ Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Wattage (Note: calculation based on lowest input wattage).

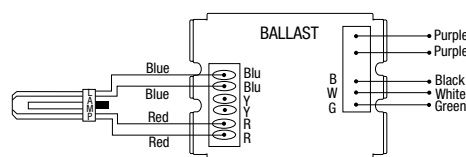
CF Dimensions, Packaging & Wiring:

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

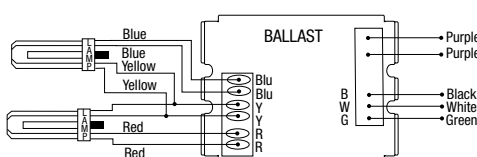
Packaging:

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

Metal Case 1 Lamp



Metal Case 2 Lamp

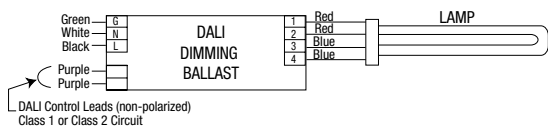


DL Dimensions, Packaging & Wiring:

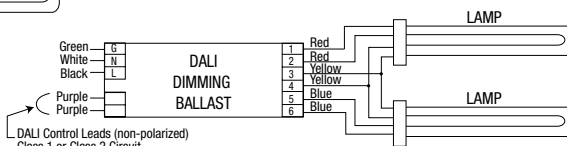
Units	L	ML	W	H
inches	18.05	17.70	1.18	1.18
mm	458.5	449.6	30.0	30.0

Packaging:

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



DL40 1-Lamp DALI



DL40 2-Lamp DALI

DALI CF/DL40 UNV Professional Series

Performance Guide

Data shown based upon SYLVANIA DULUX® lamps shown. QUICKTRONIC® DALI ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications. Do not combine QUICKTRONIC® DALI CF/DL40 ballasts with Energy Saving lamps. **Not to be used with Energy Saving lamps.**

Specifications

Starting Method: Programmed Rapid Start

Circuit Type: Series

Lamp Frequency: >42 kHz

Lamp CCF: <1.7

Starting Temp: 50°F (10°C) min.

Voltage Range: ±10% of 120/277 rated voltage

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

No remote or tandem wiring

Control Information

QUICKTRONIC DALI ballasts are compatible with DALI digital controllers available from various manufacturers.

Control Specifications:

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

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Specifications subject to change without notice.