

# QUICKTRONIC® Instant Start DL40 Universal Voltage

## High Efficiency Series

<10% THD Electronic TT5  
Fluorescent Ballast Systems

QHE DL40/28WSS ISN

### Lamp / Ballast Guide

#### 40W T5 - DULUX® L

- 1 lamp QHE 1x40DL/UNV ISN-SC
- 2 lamp QHE 2x40DL/UNV ISN-SC
- 3-lamp QHE 3x40DL/UNV ISN-SC

#### Primary Lamp Type:

FT40DL

#### Also operates:

FT40DL/28W/SS

### Key System Features

- **High Efficiency Systems** over 90% efficient
- Universal voltage (120-277V)
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- Min. Starting Temp:
  - 0°F (-18°C) for FT40DL and FT40DL/SS
- High luminous efficacy
- Virtually eliminates lamp flicker
- Quiet operation
- High power factor
- Low harmonic distortion
- Lightweight
- UL, CSA
- Auto Reset

### Application Information

#### SYLVANIA QUICKTRONIC DL40

is ideally suited for:

- Commercial
- Retail
- Hospitality
- Institutional
- Schools
- New construction
- Direct lighting
- Indirect lighting
- Surface mount
- Cove lighting

SYLVANIA QUICKTRONIC High Efficiency (QHE) energy-saving electronic DULUX L 40W ballasts save up to 6 to 9% over standard electronic ballasts without compromising light output or lamp life. The added energy savings also provides for a quicker payback.

SYSTEM DL40 is available in a one lamp, two lamp and a three lamp model. All are Universal Voltage (120-277V) models.

SYSTEM DL40 provides over 30% more lumen output than 34T12 systems at nearly the same power input. Also, the small lamp diameter and sleek profile provide new design options and improved fixture optics.

SYSTEM DL40 ballasts contain QUICK-SENSE ballast technology, a patented circuitry designed to shut down the system reliably and safely when the lamps have reached their end-of-life.

### System Information

SYSTEM DL40 uses instant start operation to provide the highest system efficacy and to assure low temperature starting capability. Instant start also provides for maximum remote wiring distances.

QUICKSENSE ballast technology helps to protect against overheated bases and sockets, as well as cracking of the glass wall, and uses dynamic end-of-lamp-life sensing to avoid false shutdowns caused by some static sensing methods. QUICK-SENSE ballast technology will auto reset when the lamps are replaced with new ones.

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

SYLVANIA QUICKTRONIC High Efficiency (QHE) ballasts operate on input voltage 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 DL40 is also covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

| System Type<br>(2 x 2)<br>2-Lamps            | Input Power<br>(W) | Initial System Lumens | System Efficacy<br>LPW |
|----------------------------------------------|--------------------|-----------------------|------------------------|
| FB40T12 - Std. Magnetic Ballast              | 96                 | 5795                  | 60                     |
| E.S. Magnetic Ballast                        | 86                 | 5795                  | 67                     |
| FB34T12 - E.S. Magnetic Ballast              | 72                 | 4575                  | 66                     |
| FB032T8 - Magnetic                           | 71                 | 5415                  | 76                     |
| DL40 - QHE2x40DL/UNV ISN-SC                  | 68/67              | 5670                  | 83/84                  |
| DL40/28W/SS - QHE2x40DL/UNV ISN-SC           | 64/63              | 5990                  | 94/95                  |
| System Type<br>(2 x 2)<br>3-Lamps            | Input Power<br>(W) | Initial System Lumens | System Efficacy<br>LPW |
| DL40 - Std. Electronic ISN Ballast (0.96 BF) | 110                | 9070                  | 82                     |
| DL40 - QHE3x40DL/UNV ISN-SC                  | 100/99             | 8505                  | 85/86                  |
| DL40/28W/SS - QHE3x40DL/UNV ISN-SC           | 95/94              | 8990                  | 95/96                  |

#### SAME LIGHT, LESS POWER

Saves 14% ... 15W with the new 3-Lamp QHE DL40/28W/IS SUPERSAVER System!



## SPECIFICATION DATA

|           |             |      |
|-----------|-------------|------|
| Catalog # | Date        | Type |
| Project   | Prepared by |      |
| Comments  |             |      |

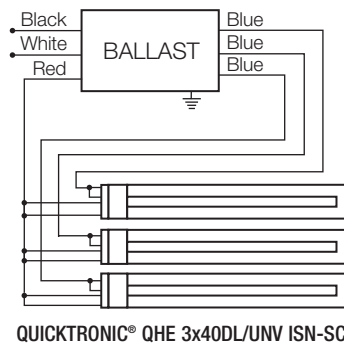
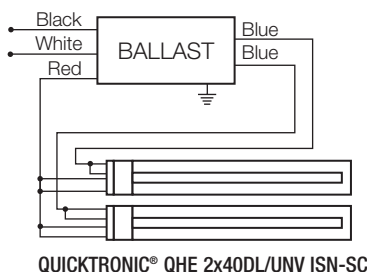
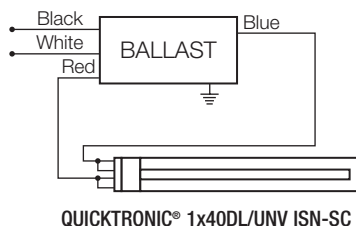
## High Efficiency Universal Voltage (120-277V)

| Item Number    | Description                          | Input Current (AMPS)   | Lamp <sup>1</sup> Type  | Rated Lumens (lm) | No. of Lamps | Ballast Factor (BF) | System Lumens | Mean System Lumens | Input Wattage (W) | System Efficacy (lm/W) | BEF <sup>2</sup> |
|----------------|--------------------------------------|------------------------|-------------------------|-------------------|--------------|---------------------|---------------|--------------------|-------------------|------------------------|------------------|
| 49428          | QHE 1x40DL/UNV ISN-SC                | 0.30/0.13<br>0.27/0.12 | FT40T5<br>FT40DL/28W/SS | 3150<br>2800      | 1<br>1       | 0.90<br>1.07        | 2835<br>2995  | 2440<br>2575       | 35<br>32          | 81<br>94               | 2.57<br>3.34     |
| 49429<br>49416 | QHE 2x40DL/UNV ISN-SC<br>Pallet Pack | 0.56/0.26<br>0.54/0.24 | FT40T5<br>FT40DL/28W/SS | 3150<br>2800      | 2<br>2       | 0.90<br>1.07        | 5670<br>5990  | 4875<br>5150       | 68/67<br>64/63    | 83/84<br>94/95         | 1.34<br>1.70     |
| 49430<br>49417 | QHE 3x40DL/UNV ISN-SC<br>Pallet Pack | 0.84/0.36<br>0.79/0.35 | FT40T5<br>FT40DL/28W/SS | 3150<br>2800      | 3<br>3       | 0.90<br>1.07        | 8505<br>8990  | 7315<br>7730       | 100/99<br>95/94   | 85/86<br>95/96         | 0.91<br>1.14     |

Pallet Pack contains 500 pieces, (add "-PAL" to Description).

1: Ballast factor based upon 225mA nominal lamp current for FT40DL lamp and 190mA nominal lamp current for FT40DL/28W/SS lamp.

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



### Dimensions:

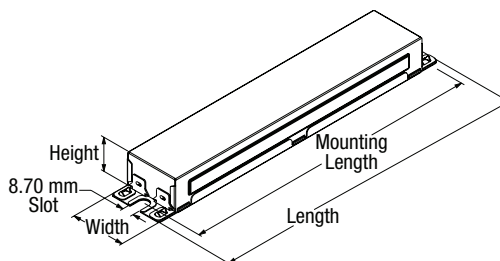
Overall: 9.5" L x 1.68" W x 1.18" H  
Mounting: 8.90"

### Packaging:

Quantity: 10 pieces  
Pallet Pack: 500 pieces  
Weight: 1.6 lbs each (approx)

### Wiring:

Leads only (no connectors provided)



|                             |       |                           |                         |
|-----------------------------|-------|---------------------------|-------------------------|
| Item Number                 | 49430 | QHE 3 x 40DL / UNV ISN SC | Case Size               |
| QUICKTRONIC High Efficiency |       |                           | Starting/Ballast Factor |
| Number of Lamps             |       |                           | Line Voltage (120-277V) |
|                             |       |                           | Primary Lamp Wattage    |

## DL40 INSTANT START

## High Efficiency

## Performance Guide

Data based upon SYLVANIA DL40 lamps shown. QUICKTRONIC® DL40 is also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

## Specifications

Data based on FT40T5

Starting Method: Instant Start

Ballast Factor: 0.90

Circuit Type: Parallel

Lamp Frequency: >40kHz

Lamp CCF: Less than 1.7

Starting Temp:<sup>3</sup> 0°F (-18°C) for FT40DL  
and for FT40DL/SS

Input Frequency: 60 Hz

Low THD: <10%

Power Factor: >98%

Voltage Range: ±10% of 120-277V  
rated line (108-305V)

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 (Max. wire length  
from ballast case to lampholder):  
up to 18 feet

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

## System Life / Warranty

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

**OSRAM SYLVANIA**  
National Customer  
Service and Sales Center  
1-800-LIGHTBULB  
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the system solution®