

DIMMABLE ELECTRONIC BALLAST

Fifth Light Technology's line of dimmable electronic ballasts provide continuous dimming control and networked connectivity in order to conserve energy, simplify maintenance and personalize lighting conditions. The Digital Addressable Lighting Interface (DALI) protocol is employed to adjust light levels, program lighting scenes and to detect when a tube needs to be replaced.

KEY PRODUCT FEATURES

- Integrated DALI communication interface connects to the network with non-twisted, non-shielded and non-polarized plenum rated wires
- Run communication wires in same conduit as power lines
- Available in 120, 277 & 347 VAC
- Total Harmonic Distortion less than 10% at all dimming levels
- Power Factor greater than 0.95 at all dimming levels
- Continuous dimming from 100% to 1% (T8) or 100% to 3% (T5 and T5HO)
- Variable ballast factor is field programmable to suit project specific conditions
- Stable light output that is free of flicker or audible noise despite poor power line quality
- 3 year standard warranty with a 6 year extended warranty available



T8

Set fade rates, fade times, groups and scenes through software and avoid manual rewiring.



T5

The narrow form factor (30 mm x 30 mm) fits modern fixture designs commonly used with T5 lamps.



T5 HO

Compensate for lamp aging by tuning the ballast factor via software in applications that require a precise amount of light.

PERFORMANCE

Our ballasts are equipped with advanced dimming technology that maintains key performance parameters throughout the dimming range.

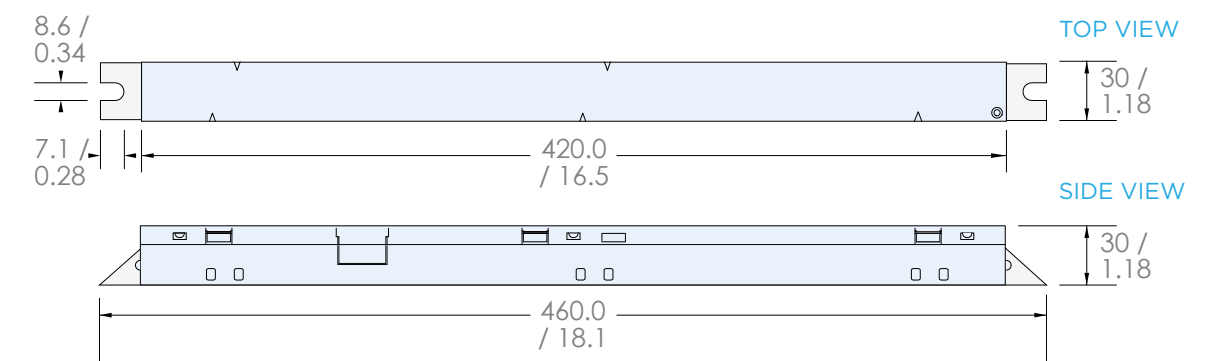
PARAMETER

| | |
|---------------------------------|---|
| Ballast Factor (BF) | Variable (0.01 - 1.0), field programmable |
| Power Factor (PF) | 0.95 < PF < 0.99 |
| Total Harmonic Distortion (THD) | 3% < THD < 10% |
| Lamp Current Crest Factor (CF) | 1.4 < CF < 1.7 |
| Light Dimming Range | 100% - 1% (T8), 100% - 3% (T5, T5HO) |
| Lamp Life | 200,000 on/off cycles |
| Lamp Starting | Programmed Rapid Start (Pre-Heat Time = 1.5 Seconds) |
| Operating Frequency | 42 kHz - 100 kHz |
| Light Output Variation | Constant light output ($\pm 1\%$) for line voltage variation of $\pm 10\%$ |
| Ambient Operating Temperature | 10 °C - 60 °C (50 °F - 140 °F) |
| Lamp Start Temperature (Min.) | 10 °C (50 °F) |
| Ballast Case Temperature (Max.) | 75 °C (167 °F) |
| Sound Rating | Inaudible in a 27dBa ambient |
| Maximum Inrush Current | 7.0 A |
| Class 1 to Class 2 Isolation | 2.0 kV |
| Standby Power | 1.5 W/2.0W/2.0 W (for 120V, 277V and 347V, respectively) |
| Communication Interface | DALI (<30 V) |

STANDARDS

- UL 935
- ANSI C82.11 High Frequency Ballast Standard
- ANSI C62.41 Cat. A Surge Protection (up to 4.0 kV)
- Class P Thermal Protection
- Manufactured in a ISO 9001 certified factory
- Lamp end of life protection circuitry

DIMENSIONS (MM/INCHES)



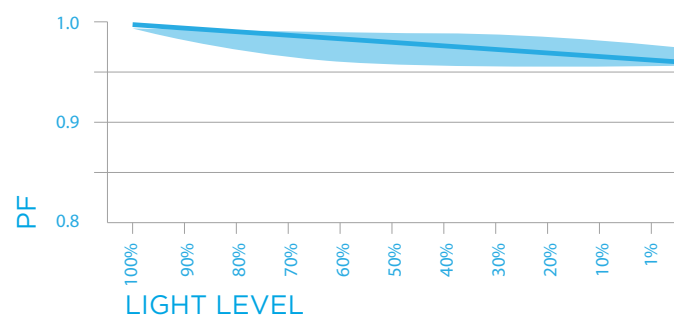
MODEL NUMBER

| MODEL NUMBER | VOLTAGE (VAC, input*) | CURRENT (Amps, max) | POWER (W, max) | NUMBER OF LAMPS | ORDER CODE | |
|------------------------|-----------------------|---------------------|----------------|-----------------|------------|-------|
| FLT-120-2-32WT8-DALI | 120 | 0.74 | 70 | 2 | 10101 | T8 |
| FLT-120-1-32WT8-DALI | 120 | 0.37 | 35 | 1 | 10102 | |
| FLT-277-2-32WT8-DALI | 277 | 0.30 | 70 | 2 | 10103 | |
| FLT-277-1-32WT8-DALI | 277 | 0.15 | 35 | 1 | 10104 | |
| FLT-347-2-32WT8-DALI | 347 | 0.24 | 70 | 2 | 10105 | |
| FLT-347-1-32WT8-DALI | 347 | 0.12 | 35 | 1 | 10106 | |
| FLT-120-2-28WT5-DALI | 120 | 0.65 | 62 | 2 | 10201 | T5 |
| FLT-120-1-28WT5-DALI | 120 | 0.33 | 31 | 1 | 10202 | |
| FLT-277-2-28WT5-DALI | 277 | 0.26 | 62 | 2 | 10203 | |
| FLT-277-1-28WT5-DALI | 277 | 0.13 | 31 | 1 | 10204 | |
| FLT-347-2-28WT5-DALI | 347 | 0.21 | 62 | 2 | 10205 | |
| FLT-347-1-28WT5-DALI | 347 | 0.11 | 31 | 1 | 10206 | |
| FLT-120-1-54WT5HO-DALI | 120 | 0.63 | 60 | 1 | 10301 | T5 HO |
| FLT-277-2-54WT5HO-DALI | 277 | 0.51 | 120 | 2 | 10302 | |
| FLT-277-1-54WT5HO-DALI | 277 | 0.26 | 60 | 1 | 10303 | |
| FLT-347-2-54WT5HO-DALI | 347 | 0.41 | 120 | 2 | 10304 | |
| FLT-347-1-54WT5HO-DALI | 347 | 0.21 | 60 | 1 | 10305 | |

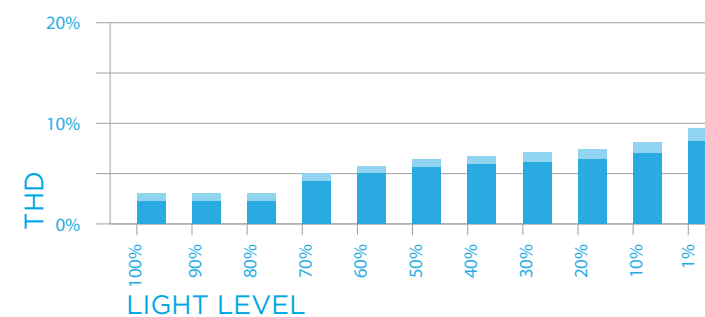
*Minimum/maximum input voltage for 120V, 277V and 347V ballasts is 95V/140V, 235V/305V and 295V/365V, respectively.

DIMMING PERFORMANCE (ALL MODELS)

POWER FACTOR (PF) VS. LIGHT LEVEL

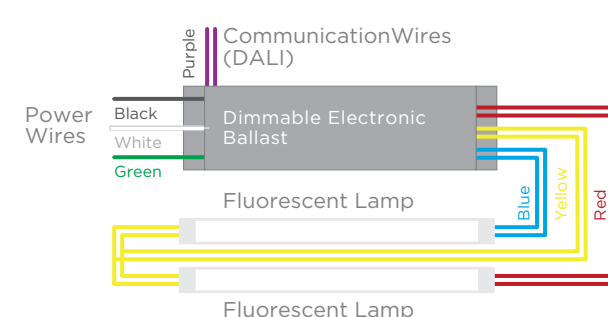


TOTAL HARMONIC DISTORTION (THD) VS. LIGHT LEVEL

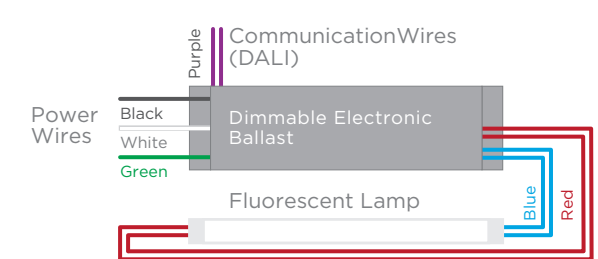


ELECTRICAL CONNECTIONS

2 LAMP MODELS



1 LAMP MODELS



IMPORTANT NOTE

- Install in accordance with all applicable national and local electrical & building codes.
- Specifications subject to change without notice.



CONTACT INFORMATION

FOR SALES & TECHNICAL SUPPORT
PLEASE CALL OUR TOLL FREE NUMBER:
1 (866) 323.0097

OR EMAIL US AT:
SALES@FIFTHLIGHT.CA
SERVICE@FIFTHLIGHT.CA

CORPORATE OFFICE

1155 NORTH SERVICE RD W. UNIT 7
OAKVILLE, ONTARIO
L6M 3E3 CANADA

TO CONTACT OUR CORPORATE OFFICE:
1 (905) 469.2142

OR EMAIL US AT:
INFO@FIFTHLIGHT.CA