



# 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 5% (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



## PERFORMANCE

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

### PARAMETER

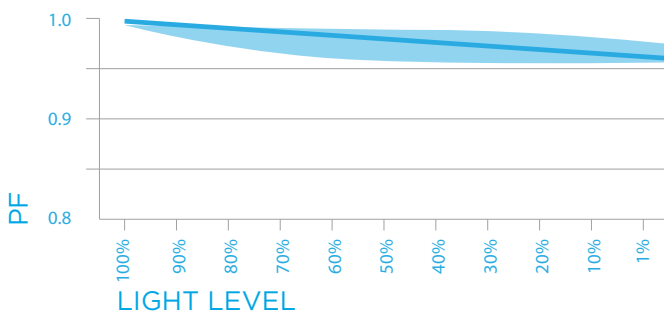
Ballast Factor (BF)	Variable (0.05 - 1.0), field programmable
Power Factor (PF)	0.95 < PF < 0.99
Total Harmonic Distortion (THD)	3% < THD < 10%
Lamp Current Crest Factor (CF)	1.4 < CF < 1.7
Light Dimming Range	100% - 1% (T8), 100% - 3% (T5, T5HO)
Lamp Life	200,000 on/off cycles
Lamp Starting	Programmed 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	5.0 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

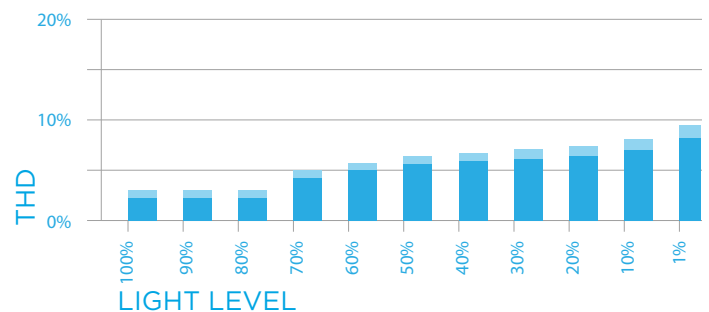
- UL 935
- ANSI C82.11 High Frequency Ballast Standard
- ANSI C62.41 Cat. A Surge Protection (up to 4.0 kV)
- Class P Thermal Protection
- Manufactured in a ISO 9001 certified factory
- Lamp end of life protection circuitry (T5 & T5HO)

## DIMMING PERFORMANCE (ALL MODELS)

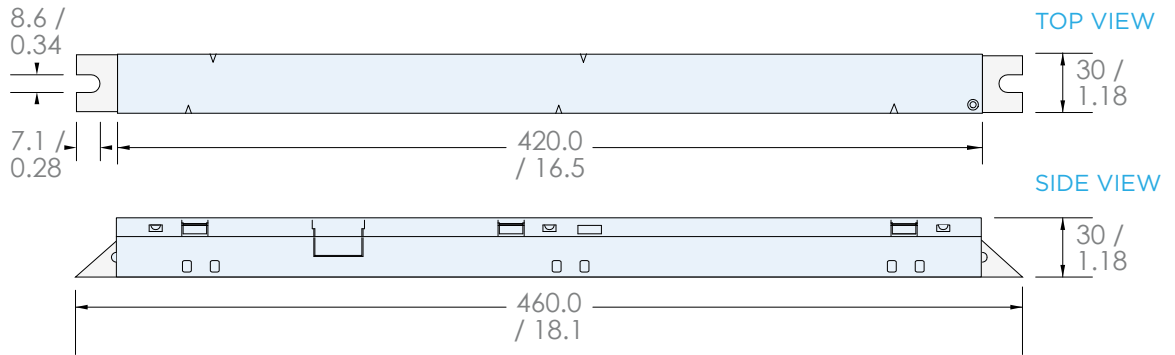
POWER FACTOR (PF) VS. LIGHT LEVEL



TOTAL HARMONIC DISTORTION (THD) VS. LIGHT LEVEL



**DIMENSIONS  
(MM/INCHES)**

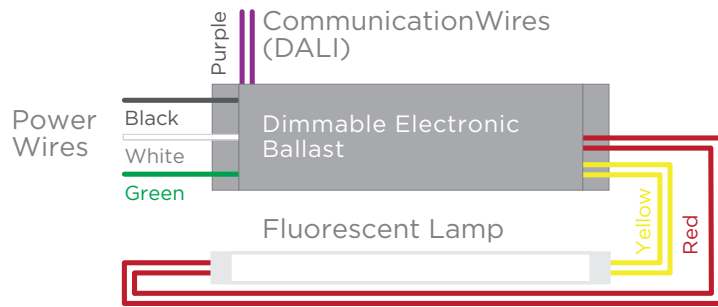


MODEL NUMBER	VOLTAGE (VAC, input*)	CURRENT (Amps, max)	POWER (W, max)	NUMBER OF LAMPS	ORDER CODE	
FLT-120-2-32WT8-DALI	120	0.74	70	2	10101	T8
FLT-120-1-32WT8-DALI	120	0.37	35	1	10102	
FLT-277-2-32WT8-DALI	277	0.30	70	2	10103	
FLT-277-1-32WT8-DALI	277	0.15	35	1	10104	
FLT-347-2-32WT8-DALI	347	0.24	70	2	10105	
FLT-347-1-32WT8-DALI	347	0.12	35	1	10106	
FLT-347-3-32WT8-DALI	347	0.35	104	3	10107	
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	
FLT-347-1-24WT5HO-DALI	347	0.10	28	1	10306	
FLT-347-2-24WT5HO-DALI	347	0.23	53	2	10307	
FLT-347-1-39WT5HO-DALI	347	0.15	44	1	10308	
FLT-347-2-39WT5HO-DALI	347	0.28	83	2	10309	
FLT-120-3-24WT5HO-DALI	120	0.82	78	3	103010	

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

## ELECTRICAL CONNECTIONS

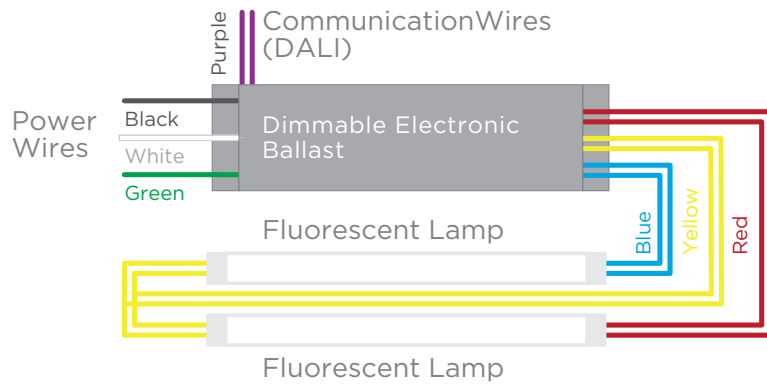
### 1 LAMP MODELS



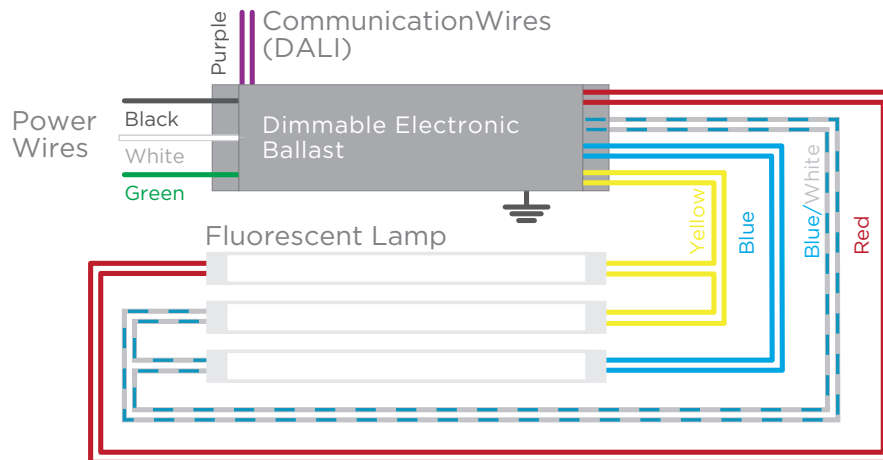
### IMPORTANT NOTE

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

### 2 LAMP MODELS



### 3 LAMP MODELS





## CONTACT INFORMATION

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

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