

APPLICATION and PERFORMANCE SPECIFICATION

**Description:** Electronic ballast(s) for (1/2) **F28T5** or (1/2) F28T5ES or (1) F35T5 or (1/2) F21T5 or (1/2) F14T5

- Line Voltage: 120 - 277 vac, ±10%, 50/60Hz
- Series Lamp Operation
- Auto Reset after Lamp Replacement
- Programmed Rapid Start
- Active Power Factor Correction
- End of Lamp Life Shutdown Circuitry

Lamp Type	Line Volts	No. of Lamps	Input Watts	Nominal Line Amps	Ballast Factor	Power Factor	Harmonic Total	Crest Factor
<b>F28T5</b>	120	2	65	0.54	1.00	> 0.98	< 10%	< 1.7
<b>F28T5</b>	120	1	32	0.27	1.00	> 0.98	< 10%	< 1.7
<b>F28T5</b>	277	2	64	0.23	1.00	> 0.98	< 10%	< 1.7
<b>F28T5</b>	277	1	32	0.12	1.00	> 0.95	< 10%	< 1.7
F28T5ES	120	2	59	0.49	1.00	> 0.98	< 10%	< 1.7
F28T5ES	120	1	29	0.24	1.00	> 0.98	< 10%	< 1.7
F28T5ES	277	2	58	0.21	1.00	> 0.98	< 10%	< 1.7
F28T5ES	277	1	29	0.11	1.00	> 0.95	< 10%	< 1.7
F35T5	120	1	40	0.33	1.00	> 0.99	< 10%	< 1.7
F35T5	277	1	40	0.15	1.00	> 0.95	< 10%	< 1.7
F21T5	120	2	47	0.39	1.00	> 0.98	< 10%	< 1.7
F21T5	120	1	24	0.20	1.01	> 0.98	< 10%	< 1.7
F21T5	277	2	46	0.17	1.00	> 0.98	< 10%	< 1.7
F21T5	277	1	24	0.10	1.01	> 0.95	< 10%	< 1.7
F14T5	120	2	33	0.27	1.01	> 0.98	< 10%	< 1.7
F14T5	120	1	17	0.15	1.02	> 0.98	< 10%	< 1.7
F14T5	277	2	33	0.12	1.01	> 0.95	< 10%	< 1.7
F14T5	277	1	17	0.07	1.02	> 0.90	< 10%	< 1.7

Application and Performance Specification Information Subject to Change without Notification.

**Performance:**

- Meets ANSI Standard C82.11-1993
- Meets ANSI Standard C62.41-1991
- Meets FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits

**Safety:**

- No PCB's
- cUL<sub>US</sub> listed (Class P, Type 1 Outdoor)

**Application:**

- Minimum Starting Temperature: 0 °F, -18 °C
- Maximum Ambient Temperature: 104 °F, 40°C
- Maximum Case Temperature(tc): 167 °F, 75 °C
- Sound Rating: Class A
- Remote Mounting: 20 ft.

**Physical Parameters**

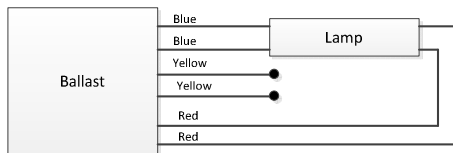
- |                    | Inches                | Metric   |
|--------------------|-----------------------|----------|
| • Mounting Length: | 8.9" +/- 0.01"        | 226 mm   |
| (Center to Center) |                       |          |
| • Overall Length:  | 9.5" +/- 0.01"        | 241.3 mm |
| • Width:           | 1.31" + 0.03"/- 0.02" | 33.3 mm  |
| • Height:          | 1.00" + 0.04"/- 0.01" | 25.4 mm  |
| • Carton Quantity: |                       | 10       |
| • Lead Length:     | White, Black          | 25"      |
|                    | Red, Blue             | 28"      |
|                    | Yellow                | 42"      |

**Warranty:**

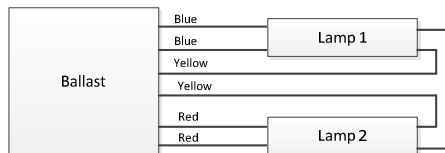
Universal Lighting Technologies warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of 5 years from date of manufacture when properly installed and under normal conditions of use. Call **1-800-BALLASTx800** for technical assistance.

**Manufactured in North America**

**1 Lamp Operation**



**2 Lamp Operation**



For one lamp application, individually cap yellow leads, insulate to 600 volts

**Ground to Case or Input Terminal (G)**