

Transit Interiors, Inc.
 1975 Joe B. Jackson Pkwy
 Murfreesboro, TN 37127

Tel. (615) 867-8515
 Fax (615) 867-8790
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BALLAST TECHNICAL SPECIFICATION

| | |
|---|--|
| Ballast Model | BAL-028-XX |
| Last Spec Sheet Update | 12/5/2006 |
| General Description | 24Vdc (nominal) Dimming (2-stage) electronic ballast for 1 lamp equipped with status indicating LED's |
| Starting Mode | Filaments are permanently heated: Instant Start |
| Lamp(s) per Ballast | 1 |
| Lamp(s) Compatibility | F24T12, F36T12, F48T12, F60T12, F72T12 |
| Output Efficiency | Minimum of 80% of full lamp output |
| Minimum Input Voltage | 22Vdc |
| Normal Input Voltage | 28Vdc |
| Maximum Input Voltage | 30Vdc |
| Output Current | Low 100mA / High 200mA |
| Operating Temperature Range | -4 ° F to 131 ° F / (-20 ° C to 55 ° C) |
| Maximum Current Draw | 1.5A (F72T12) |
| Maximum Output Power | 50 Watt |
| Dimming Control | Open: High Output; Apply 24V: Low Output |
| Output Frequency | 58 kHz / 75 kHz +/- 5kHz |
| Transients and Over Voltage Protection | Internal Varistor clamp |
| Over Temperature Protection | Integrated PTC Fuse |
| Reverse Polarity Protection | Integrated PTC Fuse |
| Output Short Circuit: 28 Vdc | 180mA |
| Short Circuit Protection | Shut down if any pin loses contact |
| UL 935 Type CC | Yes |
| FCC Part 18 | Yes |
| Environmental Protection | Conformal coating against air pollution, moisture and humidity |
| Green LED Indicator | Green LED on indicated that the ballast is functioning properly |
| Red LED Indicator | Red LED on indicates ballast shut down or malfunction |
| Other Features | 5 year warranty, non potted, fire proof (steel or aluminum) housing, repairable, recyclable, radio frequency shielded. |

BAL-028

BAL-028 meets the requirements for UL935 Type CC; Test Purpose: To determine that the ballast will not cause a harmful arc.

BAL-028 incorporates a PTC (Positive Temperature Coefficient Resettable fuse) which provides protection for:

Reverse polarity - After correcting polarity, ballast will operate.

Over temperature - At 230 degrees F, the PTC fuse will trip. After cooling off, the input power needs to be re-applied for start.

Specifications are subject to change without notice

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INPUT CURRENT TABLE

| Model / Lamp | F24T12 | F36T12 | F48T12 | F60T12 | F72T12 |
|--------------|--------|--------|--------|--------|---------------|
| BAL-028 | .80A | .95A | 1.00A | 1.5A | 1.65/0.85A ** |

** Low level output, input current drop

BALLAST DIAGNOSIS AND LED INDICATORS

| Model | Condition | Red LED | Green LED | Operation |
|---------|-------------|---------|-----------|--|
| BAL-028 | Normal | OFF | ON | N/A |
| | Lower Level | OFF | ON | N/A |
| | No Light | ON | ON | Remove lamp tube, check lamp ends and sockets for damage, replace both if necessary. Ensure that all 4 pins make good contact. |
| | Malfunction | ON | OFF | Restart the ballast, if Red LED is still on, try a new lamp tube to ensure that the lamps pre-heat filaments are working, otherwise replace the ballast. |

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