

# Centium® Program Rapid-Start, Small Can Electronic Ballast

for (1), (2), (3) or (4) F32T8, F25T8 and F17T8 fluorescent lamps

## PRODUCT PROFILE



### Function

Advance Transformer's new Centium® Program Rapid-Start "Small Can" electronic ballast is designed to operate one, two, three or four T8 lamps. The Small Can is becoming increasingly important to customers who wish to use sleeker, lower profile fixture. This improved design is 45% smaller and 33% lighter than our "Standard Can" while maintaining the industry standard foot print.

This product family can now satisfy demand for a complete range of rapid-start applications -- particularly where long lamp life or frequent switching is required.

### Design Highlights

- Measures 9.5"L x 1.7"W x 1.18"H.  
(240mm x 43mm x 30mm)
- Weighs, 1.7lbs. (775g)
- Cool operation assured with thermal conducting compound, which dissipates heat away from internal components.
- Soldered copper leads for a safe, firm electrical connection.
- Exceptional power quality with a power factor >98%, and THD <10%.
- Cold temperature starting: 32°F (0°C).

Features	Benefits
Program Rapid-Start operation	<ul style="list-style-type: none"> <li>• Maximizes lamp life - Provides up to 30,000 lamp cycles.</li> <li>• Reduced lamp replacement.</li> <li>• Ideal for use with occupancy sensors.</li> </ul>
Smallest profile Program Rapid-Start ballast available. 33% lighter and 45% smaller than Advance's standard electronic ballasts.	<ul style="list-style-type: none"> <li>• Increased flexibility - Accommodates lower profile fixtures.</li> <li>• Lower shipping and storage costs.</li> <li>• Ease of handling and installation.</li> </ul>
Series-Parallel operation for (3) or (4) lamp ballasts; two branches allow independent lamp operation.	<ul style="list-style-type: none"> <li>• Improved occupant safety - When one lamp fails on one circuit, lamps on the parallel circuit stay on.</li> <li>• Convenient &amp; Cost effective - Replace only the lamps that have failed without having to troubleshoot all 4 lamps.</li> </ul>
Capable of remote/tandem applications up to 20'.	• <b>One</b> ballast can be used to operate <b>two</b> fixtures.
Ballasts utilize fewer wires than similar competitive ballasts.	• Installation easier and less costly.
Operates above 40kHz	• Reduces potential interference with infrared remote control systems, which typically operate in the 33 to 44kHz band.

### Applications

- New construction and retrofit installations
- Frequent on/off switching or occupancy sensor controlled spaces
- General office lighting
- Boardrooms and executive office
- Conference and meeting rooms.

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## Program Rapid-Start Ballast Specifications

### Section I - Physical Characteristics

- 1.0 The ballast shall be physically interchangeable with a standard electromagnetic and standard electronic ballast.
- 1.1 The electronic ballast shall be provided with integral leads, color-coded to ANSI standard C82.11 (latest version).

### Section II - Performance Requirements

- 2.0 Ballast shall operate from a nominal line voltage of 120, 277 volts, +/-10%, 60Hz.
- 2.1 The electronic ballast's input current shall have a Total Harmonic Distortion (THD) of less than 10% when used with primary lamp.
- 2.2 The electronic ballast shall have a Power Factor greater than 98% when used with primary lamp.
- 2.3 The electronic ballast shall have Lamp Current Crest Factor of less than 1.7.
- 2.4 The electronic ballast shall support a sustained short to ground or open circuit of any output leads.
- 2.5 The electronic ballast shall be sound rated A.
- 2.6 Ballast output frequency to the lamps shall be above 40kHz to minimize interference with infrared control systems, and eliminate visible flicker.

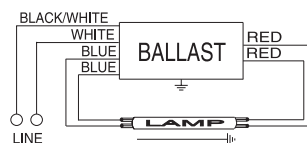
### Section III - Regulatory Requirements

- 3.0 Ballast shall meet the requirements of the Federal Communications Commission rules and regulations, part 18, for Non-Consumer equipment.
- 3.1 The electronic ballast shall meet ANSI C82.11 standards regarding harmonic distortion.
- 3.2 Ballast shall meet ANSI C62.41 Cat. A for transient protection.
- 3.3 The electronic ballast shall comply with all applicable state and federal efficiency standards.
- 3.4 The electronic ballast shall be Underwriters Laboratories (UL) listed (Class P) and CSA Certified where applicable.
- 3.5 Ballast shall be UL listed type HL for hazardous locations.

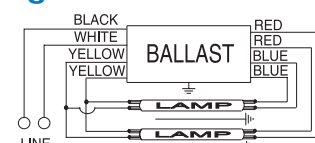
### Section IV - Other

- 4.0 The electronic ballast shall not contain Polychlorinated Biphenyl (PCB's).
- 4.1 The electronic ballast shall carry a five year warranty when its case temperature does not exceed 70°C.
- 4.2 Ballast manufacturer must have a 10 year history of producing electronic ballast for the North American market.
- 4.3 Ballast shall be produced in a factory certified to ISO 9002 Quality System Standards.

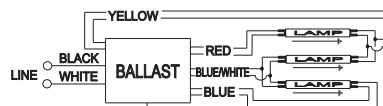
## Wiring Diagrams



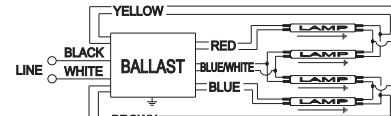
1-LAMP BALLAST



2-LAMP BALLAST

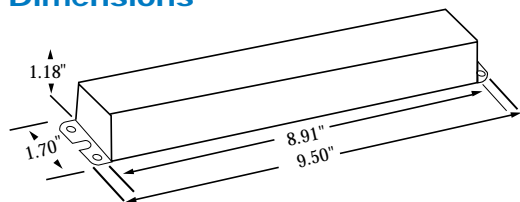


3-LAMP BALLAST



4-LAMP BALLAST

## Dimensions



## Ballast Selection Guide

Volts	No. of Lamps and Type	Catalog Number	Input Amps	ANSI Input Watts	Ballast Factor	Power Factor	Ballast THD%	Minimum Start Temp.
120	(1) F32T8	RCN-1S32-SC	0.29	34	0.90	>.98	<10	32°F/0°C
	(2) F32T8	RCN-2S32-SC	0.53	63	0.88	>.99		
	(3) F32T8	RCN-3S32-SC	0.78	91	0.88	>.99		
	(4) F32T8	RCN-4S32-SC	1.03	121	0.88	>.99		
277	(1) F32T8	VCN-1S32-SC	0.13	34	0.90	>.98		
	(2) F32T8	VCN-2S32-SC	0.23	63	0.88	>.99		
	(3) F32T8	VCN-3S32-SC	0.34	91	0.88	>.99		
	(4) F32T8	VCN-4S32-SC	0.45	121	0.88	>.99		
120	(1) F25T8	RCN-1S32-SC	0.24	28	0.95	>.98		
	(2) F25T8	RCN-2S32-SC	0.45	53	0.95	>.99		
	(3) F25T8	RCN-3S32-SC	0.65	77	0.95	>.99		
	(4) F25T8	RCN-4S32-SC	0.84	101	0.95	>.99		
277	(1) F25T8	VCN-1S32-SC	0.10	28	0.95	>.98		
	(2) F25T8	VCN-2S32-SC	0.20	53	0.95	>.99		
	(3) F25T8	VCN-3S32-SC	0.28	77	0.95	>.99		
	(4) F25T8	VCN-4S32-SC	0.36	101	0.95	>.99		

Note: All ballasts listed are also rated to operate F17T8 lamps; however, the maximum indicated lamp cycles may not be obtained. Consult Customer Support for technical specifications.

Technical Note: Do not short the lamp lead wires together and do not use shunted lamp sockets.



Specifications subject to change without notice.  
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