



Electronic Ballast Specifications

Lamp Data			Min. Starting Temp. (°F)	Input Volts	Catalog Number	Max. Line Current (Amps)	Max. Input Power (Watts)	Open Circuit Volts	Dim.	Wiring Diag.	Weight (lbs.)
No. of Lamps	Lamp Footage										
	Min	Max									
1, 2	4	16	-20°F	120	ASB-0416-12-E	1.46	175	750	BL-1	21, 39	6
2, 3, 4	12•	32•			ASB-1232-24-E	2.95	350	1000	BL-2	5, 9, 13	8
4, 5, 6	20▼	48▼			ASB-2048-46-E*	4.17	490	1000	BL-3	14, 15, 19	10

- Total lamp length of each circuit (A) and (B) must not be less than 6ft. nor more than 16ft. .
Circuit (A) is comprised of lamps 1, 2. Circuit (B) is comprised of lamps 3, 4. (See wiring diagrams)
 - ▼ Total lamp length of each circuit (A) and (B) must not be less than 10ft. nor more than 24ft. .
Circuit (A) is comprised of lamps 1, 2, 3. Circuit (B) is comprised of lamps 4, 5, 6. (See wiring diagrams)
 - * ASB-2048-46-E will operate (3) 10ft. lamps. (See wiring diagram 28)
- Note: See Page 8 for Dimensions and Wiring Diagrams.

Ballast Selection Guide

		Total Lamp Feet																														
		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50						
Number of Lamps per Ballast	1,2			ASB-0416-12-E																												
	2,3,4											ASB-1232-24-E																				
	4,5,6															ASB-2048-46-E																

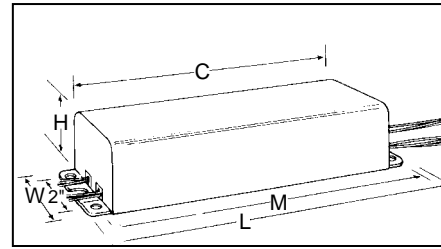
Electronic Sign Ballast Specifications

1. The ballast shall be Advance signPRO electronic design for T12/HO lamps.
2. The ballast shall be provided with integral leads, color-coded to ANSI standard C82.11 (latest version).
3. The ballast shall operate from a nominal line voltage of 120V +/- 10%, 60 Hz.
4. The ballast shall operate the lamps above 20 KHz.
5. The ballast shall have input current Total Harmonic Distortion (THD) of less than 20% at max. load.
6. The ballast shall have a Power Factor greater than 98% at max. load.
7. The ballast shall start the lamps at a minimum temperature of -20° F / -29° C.
8. The ballast shall provide a nominal Lamp Current Crest Factor of less than 1.7.
9. The ballast shall operate the lamps in series or series parallel.
10. The ballast shall support a sustained short to ground or open circuit of any output leads.
11. The ballast shall be Underwriters Laboratories (UL) listed (Class P, Type 2 Outdoor) and CSA certified.
12. The ballast shall have an audible noise rating of Class B or better.
13. The ballast shall comply with Federal Communications Commission (FCC) Part 18 for non-consumer equipment both conducted and radiated.
14. The ballast shall meet ANSI C62.41 for transient protection.
15. The ballast shall carry a three-year warranty from the date of manufacture with a 90°C maximum case temperature.

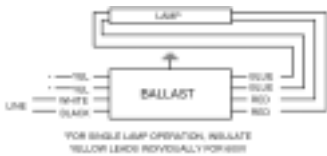


Ballast Dimensions and Diagrams

Designation	Dimension (inches)			
	Length (L)	Width (W)	Height (H)	Mounting (M)
BL-1	11.75	3.19	2.63	11.13
BL-2	14.30	3.19	2.63	13.75
BL-3	19.20	3.19	2.69	18.63
BL-4	16.70	3.19	2.63	16.13



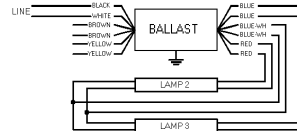
Wiring Diagrams



Diag. 39

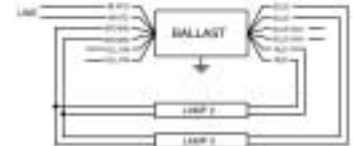


Diag. 21



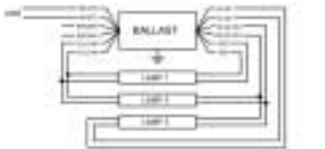
Note: Insulate unused leads individually as shown on ballast label.

Diag. 5



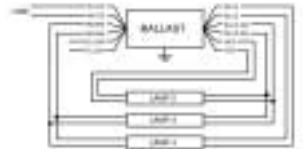
Note: Insulate unused leads individually as shown on ballast label.

Diag. 7



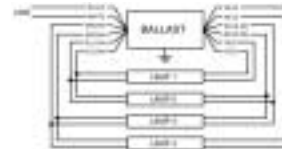
Note: Insulate unused leads individually as shown on ballast label.

Diag. 8

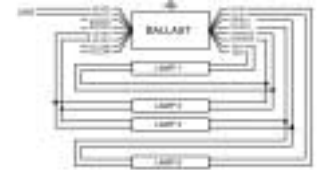


Note: Insulate unused leads individually as shown on ballast label.

Diag. 9



Diag. 13



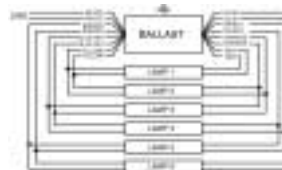
Note: Insulate unused leads individually as shown on ballast label.

Diag. 14

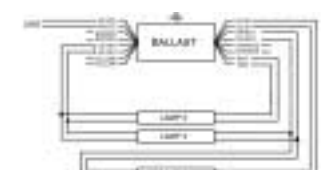


Note: Insulate unused leads individually as shown on ballast label.

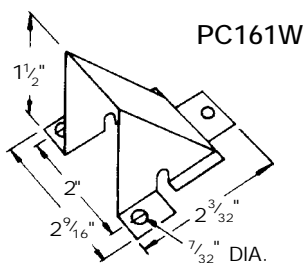
Diag. 15



Diag. 19

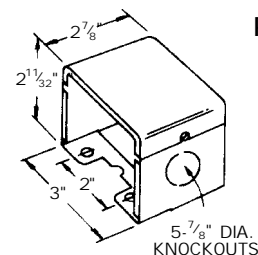


Diag. 28



PC161W

Wiring Compartments



PC857W

Exclusively for Indoor Applications...

Electronic Ballasts

for T8 and T5/HO Fluorescent Lamps

Keep operating costs down!

For indoor sign applications (backlit signs and advertisements in airports and malls, menu boards, etc.), Advance offers a full range of electronic ballasts for use with T8 fluorescent lamps. Signs currently illuminated by less efficient, old-technology T12 fluorescent lamps can be easily retrofitted with new T8 lamps and Advance Standard Electronic Ballasts to provide substantial energy savings.

Advance Standard Electronic Ballasts are available for the operation of a wide range of T8 fluorescent lamp lengths and wattages. In addition to their energy saving potential, they provide quiet operation (Sound Rated A), high power factor operation, and lamp starting down to 0° F for most applications.

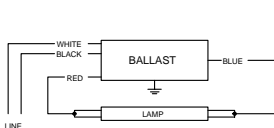


Advance also makes available a complete offering of ballasts for the operation of the new, highly efficient T5/HO fluorescent lamps - an exciting new resource for sign designers and builders.

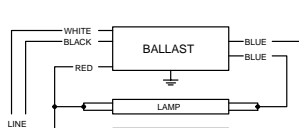


Indoor Fluorescent Ballast Specifications

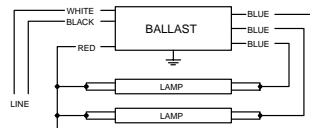
Lamp Data				Min. Starting Temp.	Input Volts	Catalog Number	Max. Input Current (Amps)	Max. Input Power (Watts)	Open Circuit Voltage	Dim.	Wiring Diagram	Weight (lbs.)	
No. of Lamps	Lamp Type	Lamp Footage											
		Min	Max										
Electronic Ballasts for 2', 3' or 4' T8 Lamps (60Hz, Type I Outdoor, UL & CSA)													
1	F17T8 F25T8 F32T8	2	4	0°F	120	REL-1P32-SC	0.27	32	600	Fig. B	63	1.2	
					277	VEL-1P32-SC	0.12						
2			4		8	120	REL-2P32-SC	0.49	58	600	Fig. B	64	1.2
						277	VEL-2P32-SC	0.21					
3			6		12	120	REL-3P32-SC	0.71	85	600	Fig. B	65	1.0
						277	VEL-3P32-SC	0.31					
4			8		16	120	REL-4P32-SC	0.94	112	600	Fig. B	66	1.0
						277	VEL-4P32-SC	0.41					
Note: All the above ballasts will operate F17T8, F25T8 or F32T8 lamps.													
Electronic Ballasts for 2', 3' or 4' T5HO Lamps (60Hz, Type I Outdoor, UL & CSA)													
1, 2	F24T5/HO	1.92	3.84	0°F	120 - 277	ICN-2S24	0.44 - 0.19	52	600*	Fig. D	73, 74	1.0	
1, 2	F39T5/HO	2.83	5.67		120 - 277	ICN-2S39	0.73 - 0.31	87	600*	Fig. D	73, 74	1.5	
1, 2	F54T5/HO	3.83	7.67		120 - 277	ICN-2S54-90C	1.00 - 0.43	120	600*	Fig. D	73, 74	1.0	
3, 4		7.67	15.33		120 - 277	ICN-4S54-90C-2LS	2.00 - 0.86	240	600*	Fig. D	73, 74	1.5	
Note: ICN-2S24 will operate F24T5/HO lamps, ICN-2S39 will operate F39T5/HO lamps, ICN-2S54-90C and ICN-4S54-90C will operate F54T5/HO lamps. *Open circuit voltage cannot be measured due to lamp E-O-L protection circuit. Must use 600V rated wire for lamp connections.													



Diag. 63



Diag. 64



Diag. 65

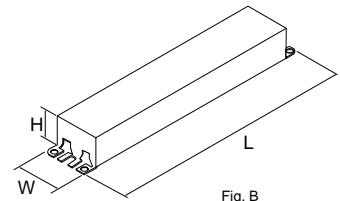
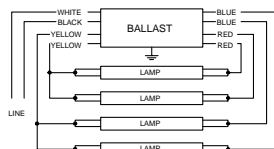
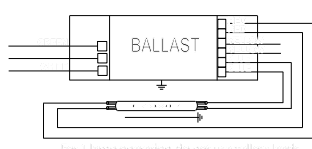


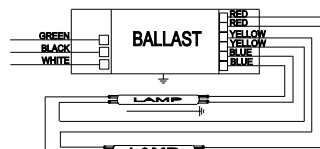
Fig. B



Diag. 66



Diag. 73



Diag. 74

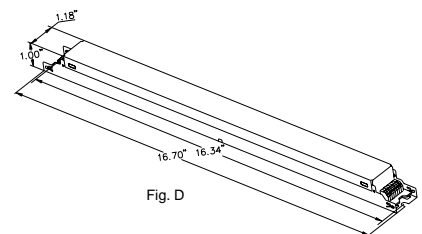


Fig. D