ADVANCE

ELECTRONIC

AmbiStar™

Electronic Ballasts for Compact Fluorescent Lamps

PRODUCT OVERVIEW:

Delivering all of the benefits of the industry's broadest line of ballasts to the consumer market, Advance's **AmbiStar** electronic ballasts for compact fluorescent lamps deliver warm, comfortable, and cost-effective lighting solutions to a wide variety of home and hospitality settings. From residential kitchens to hotel bathrooms and foyers, **AmbiStar** ballasts are available in a broad range of profiles and models to provide the maximum performance, efficiency, and design flexibility for consumer/end-user use.

Advance's family of **AmbiStar** compact fluorescent product options include ballasts for 13 Watt, 18 Watt, 26 Watt, 32 Watt, and 42 Watt Compact Fluorescent Lamps. Driving some of the most popular CFL options on the market, these ballasts are ideal for such applications as downlighting, task, ambient, hallway, and staircase lighting. Available in a broad range of fixed options and featuring dimming technology on the one and two-lamp 26 Watt models, one-lamp 32 Watt models, and one-lamp 42 Watt models, these ballasts are able to operate on most incandescent dimmers including Advance's, Mark 10® *Powerline* dimmers.

DESIGN HIGHLIGHTS:

- Electronic circuitry
  - Delivers energy savings of up to 25% over Advance's L1Q26TP magnetic fluorescent ballast* and as much as 75% energy savings relative to Philips 100A incandescent bulb**
  - Enables ballasts to run cooler and operate quieter than many magnetic ballast alternatives
- Class B FCC EMI Rating
  - Requirement for the EPA ENERGY STAR residential lighting fixtures
- Title 24 Energy Efficiency Requirements
  - For use in high efficiency residential fixtures as stated in California's Title 24 requirements
- Operation above 40kHz
  - Avoids interference with infrared control systems
  - Delivers quiet, flicker-free performance
- Lamp ignition in less than 1.0 second
  - Provides flicker-free starting
  - Faster ignition compared to 1.25-1.50 second starting ability offered by programmed start CFL ballasts
- Auto restart circuit
  - Eliminates the need to reset power mains after failed lamps are replaced
- Lamp End-Of-Life (EOL) protection circuit
  - Removes power to the lamps upon lamp failure
- Dimming from 100% down to 15% of relative light output on dimmable ballast models
  - Optimizes downlighting applications
  - Expands range of end user options

* Based on input watts of Advance's REB126M6 (25 watts) and L1Q26TP (33 watts)

** Based on input watts of Advance's REB126M6 operating a Philips PL-T 26W/4P/ALTO (25 watts) and Philips 100A (100 watts)

APPLICATIONS:

■ ***Residential*** ■ ***Hospitality***

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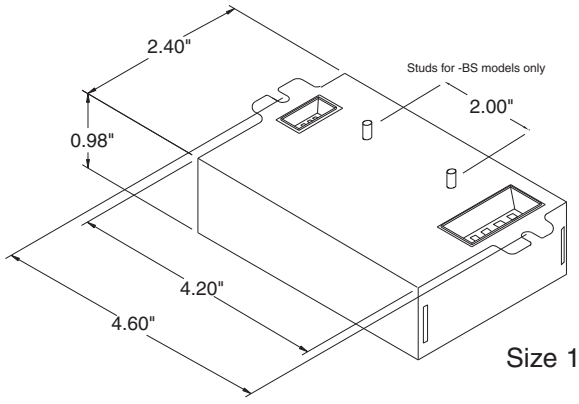
AmbiStar Fixed Output Ballast

No. of Lamps	Input Volts	Lamp Starting Method	Ballast Family	Catalog Number	Input Power ANSI (Watts)	Ballast Factor	Max. THD %	Line Current (Amps)	Min. Starting Temp. (°F/°C)	Dim.	Wiring Dia.
CFQ13W/G24q - 13W CFL Quad Tube Lamps, CFTR13W/GX24q - 13W CFL Triple Tube Lamps											
1	120	IS	AmbiStar	REB-113-M6-BLS	13	1.00	150	0.23	0/-18	A	1
				REB-113-M6-BL						B	
				REB-113-M6-EL						C	
CFQ18W/G24q - 18W CFL Quad Tube Lamps, CFTR18W/GX24q - 18W CFL Triple Tube Lamps											
1	120	IS	AmbiStar	REB-118-M6-BLS	18	1.00	150	0.29	0/-18	A	1
				REB-118-M6-BL						B	
				REB-118-M6-EL						C	
CFQ26W/G24q - 26W CFL Quad Tube Lamps, CFTR26W/GX24q - 26W CFL Triple Tube Lamps											
1	120	IS	AmbiStar	REB-126-M6-BLS	25	1.00	150	0.38	0/-18	A	1
				REB-126-M6-BL						B	
				REB-126-M6-EL						C	

AmbiStar Dimming Ballast

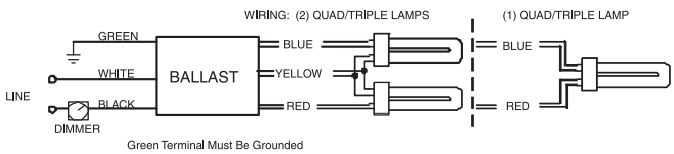
No. of Lamps	Input Volts	Lamp Starting Method	Ballast Family	Catalog Number	Max/Min		Full Light Output		Min. Starting Temp. (°F/°C)	Dim.	Wiring Dia.
					Input Power ANSI (Watts)	Ballast Factor	THD %	Line Current (Amps)			
CFQ26W/G24q - 26W CFL Quad Tube Lamp (PL-C26W/4P, F26DBX/4P, CF26DD/E) CFTR26W/GX24q - 26W CFL Triple Tube Lamp (PL-T26W, F26TBX/4P, CF26DT/E)											
1	120	RS	AmbiStar	REB-2S26-M1-BS-DIM	27/9	0.85/0.15	150	0.23	50/10	Size 1	138
				REB-2S26-M1-LS-DIM							
2	120			REB-2S26-M1-BS-DIM	52/17			0.45			
				REB-2S26-M1-LS-DIM							
CFTR32W/GX24q - 32W CFL Triple Tube Lamp (PL-T32W, F32TBX/4P, CF32DT/E)											
1	120	RS	AmbiStar	REB-2S26-M1-BS-DIM	35/10	0.85/0.15	150	0.30	50/10	Size 1	138
				REB-2S26-M1-LS-DIM							
CFTR42W/GX24q - 42W CFL Triple Tube Lamp (PL-T42W, F42TBX/4P, CF42DT/E)											
1	120	RS	AmbiStar	REB-2S26-M1-BS-DIM	47/11	0.85/0.15	150	0.40	50/10	Size 1	138
				REB-2S26-M1-LS-DIM							

Some lamp manufacturers recommend burning in new lamps 100 hours at full light output before dimming. Consult lamp manufacturer.
Ballasts utilizing poke-in connectors can accept wire gauges from AWG 16 - 20.
Ballast dimmable from most incandescent or Mark *10 Powerline* dimmers. Consult control manufacturer for exact models.

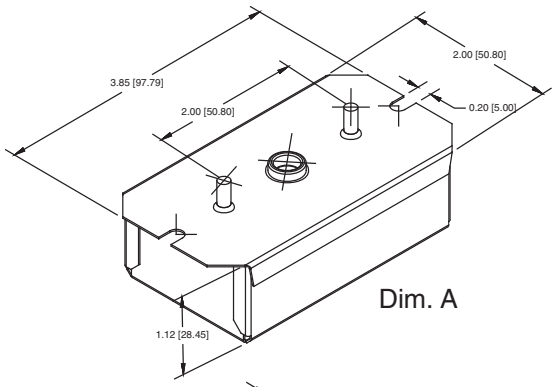


Size 1

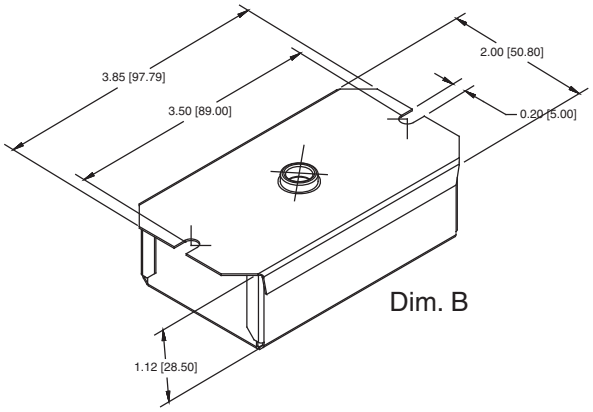
LS models do not have mounting studs



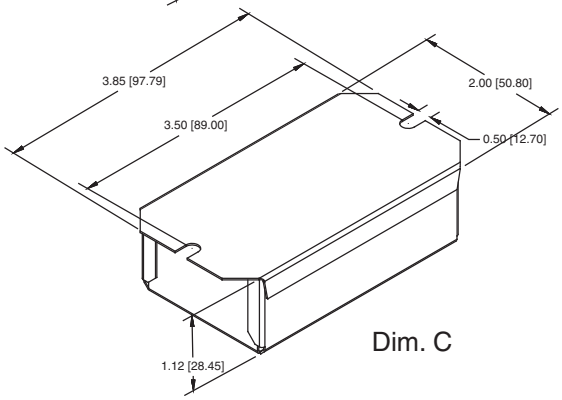
Diag. 138



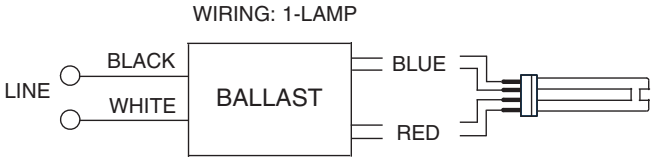
Dim. A



Dim. B



Dim. C



Wiring Diag. 1

Section I - Physical Characteristics

1.1 Ballast shall be provided with integral leads color coded per ANSI C82.11.

Section II - Performance Requirements

2.1 Ballast shall be Instant or Rapid Start

2.2 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power

2.3 Ballast shall operate from 60 Hz input source of 120V with sustained variations of +/- 10% (voltage and frequency).

2.4 Ballast shall be high frequency electronic type and operate lamps at a frequency above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.

2.5 Ballast shall have a Power Factor greater than 0.50 for primary lamp.

2.6 Fixed Output Ballast shall have a minimum ballast factor of 1.00 for primary lamp.

2.7 Dimming Ballast shall have a minimum ballast factor of 0.85 at maximum light output and 0.15 at minimum light output for primary lamp.

2.8 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less in accordance with lamp manufacturer recommendations.

2.9 Ballast input current shall have Total Harmonic Distortion (THD) of less than 150% when operated at nominal line voltage with primary lamp.

2.10 Ballast shall have a Class A sound rating.

2.11 Ballast shall have a minimum starting temperature for primary lamp as follows: 0°F/-18°C for Fixed Output Ballast or 50°F/10°C for Dimming Ballast.

2.12 Ballast shall provide Lamp EOL Protection Circuit.

2.13 Ballast shall tolerate sustained open circuit and short circuit output conditions.

2.14 Dimming Ballast shall ignite the lamps at any light output setting without first going to another output setting.

Section III - Regulatory Requirements

3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).

3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type 1 Outdoor; and Canadian Standards Association (CSA) certified where applicable.

3.3 Ballast shall be rated for use in air-handling spaces.

3.4 Ballast shall comply with ANSI C62.41 Category A for Transient protection.

3.5 Ballast shall comply with ANSI C82.11 where applicable.

3.6 Ballast shall comply with the Federal Communications Commission (FCC), Title 47 CFR part 18, Consumer (Class B) for EMI/RFI (conducted and radiated).

Section IV - Other

4.1 Ballast shall be manufactured in a factory certified to ISO 9002 Quality System Standards.

4.2 Ballast shall carry a two-year limited warranty from date of manufacture to be free from defects in material and workmanship, under certain conditions, including, but not limited to, operation at a maximum case temperature of 90°C or 40°C ambient.

4.3 Manufacturer has a fifteen-year history of producing electronic ballasts for the North American market.

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