

bodine

Emergency Ballast

Linear fluorescent

B30



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

AC/DC Output for T5 or T8 lamps
One- or Two-lamp Operation
Up to 3500 Lumen Output
Universal Input (120 through 277)

Product order number: B30 (galvanized metal case)

Specifications

UL Listed for the US and Canada
Factory or Field Installation
(Indoor and Damp)

Illumination Time
90 Minutes

Initial Light Output
900 - 3500 Lumens

Full Warranty
5 Years (NOT pro-rata)

Universal Input Voltage
120-277 VAC, 50/60 Hz

AC Input Current
110 mA

AC Input Power Rating
8.5 Watts

Test Switch/Charging Indicator Light
Two-Wire Illuminated Test Switch (2W-ITS)

Battery
High-Temperature, Maintenance-Free
Nickel-Cadmium Battery
7- to 10-Year Life Expectancy

Battery Charging Current
280 mA

Recharge Time
24 Hours

Temperature Rating (Ambient)
0°C to +50°C
(32°F to 122°F)

Dimensions
16.6" x 2.8" x 2.85"
(422 mm x 71 mm x 73 mm)
2' (610 mm) Flexible Conduit
Mounting Center 16.05" (408mm)

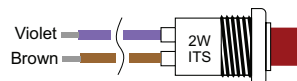
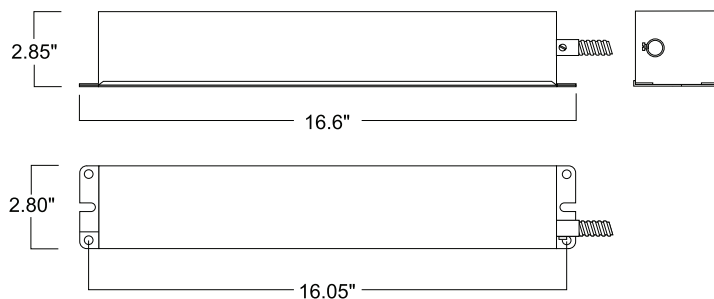
Weight
7.5 lbs. (3.41 kg)

Benefits:

- Emergency mode lumen output up to 3500 lumens
- AC or DC output for T5 or T8 lamps
- Operates TLED lamps (See Table 1)
- One- or Two-lamp operation
- Universal input (120 through 277 VAC 50/60 Hz)
- End-of-Lamp Life Compatible
- Two-wire illuminated test switch

Dimensions

16.6" x 2.8" x 2.85" (mounting center - 16.05")



An illuminated test switch/charging indicator light is provided.

B30 Fluorescent emergency ballast, AC/DC output, full lumen output

Application

The B30 emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a nickel-cadmium battery, charger and electronic circuitry in one case. The B30 can be used with most 17 - 215 W (2' - 8') T5, T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline, energy-saving and rapid-start (4-pin) compact fluorescent lamps. B30 also operates Philips InstantFit LED 2' to 4' 8.5 W - 16.5W T8 and InstantFit LED U Bend 6" 16.5 W T8 lamps. One- or two-lamp operation may be selected for some lamps (see Table 1). It is also compatible with most one-, two-, three- and four-lamp electronic, standard, energy-saving and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The B30 is suitable for indoor and damp locations. It is not suitable for air handling heated air outlets or wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory. Recommended applications include: hospital surgical suites and areas along the path of egress with high ceiling heights, as well as health care, educational and commercial facilities needing higher levels of emergency illumination.

Operation

When AC power fails, the B30 immediately switches to the emergency mode, operating either one or two lamps at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency ballast automatically returns to the charging mode and, delays AC ballast operation for approximately three (3) seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

Table 1 Lamp Compatibility

LAMP DIAMETER (T5, T8, T9, T10, T12)	BASE	WATTAGE (Length)	NO. of LAMPS (EMERGENCY)	BROWN CONNECTOR	VIOLET CONNECTOR
1", 1/4", 1/2" (T8, T9, T10, T12)	Single or Bipin	17 - 40 W (2' - 4')	1	CLOSED	OPEN
		40 - 215 W (5' - 8')	2	OPEN	CLOSED
			1	OPEN	CLOSED
Long Compact	4-PIN (2G11)	18 - 55 W	1	CLOSED	OPEN
Twin/Quad/Triple Twin-Tube Compact	4-PIN (G24q, GX24q)	18 - 42 W	1	CLOSED	OPEN
Philips InstantFit LED T8	Bipin	8.5 - 16.5W (2'-4')	1	CLOSED	OPEN
Philips InstantFit LED T8 U Bend 6"	Bipin	16.5 W	1	CLOSED	OPEN
Philips InstantFit LED Twin-Tube Compact	4-PIN	16.5W 22"	1	CLOSED	OPEN
2D	4-PIN (GR10q)	16 - 55 W	1	CLOSED	OPEN
	HO Circline 4-PIN (2GX13)	22 - 55 W	1	CLOSED	OPEN
T5 HO	Miniature Bipin	24 - 54W (2' - 4')	1	CLOSED	OPEN
T5	Miniature Bipin	14 - 35W (2' - 5')	1	CLOSED	OPEN

Installation

The B30 does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The B30 may be installed on top of or remote from the fixture. The emergency ballast may be remotely installed up to half the distance the AC ballast manufacturer recommends removing the AC ballast from the lamp or up to 50 feet, whichever is less. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C. A 2-wire illuminated test switch is provided.

Emergency Illumination

Depending on the number (one or two), wattage and type of lamps selected, the B30 produces 900 to 3500 lumens initial emergency light output (see Table 2). If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination.

Specification

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Bodine B30 emergency ballast. The B30 shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 16.6" x 2.8" x 2.85" metal case with a 2' length of flexible conduit. An illuminated test switch to monitor the charger and battery and installation hardware shall be provided. The emergency ballast, shall delay AC ballast operation for approximately three (3) seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating [one or two] _____ fluorescent

lamp(s) (see Table 1) at _____ lumens (see Table 2) initial light output in the emergency mode for a minimum of 90 minutes. It shall be suitable for indoor and damp locations. The B30 shall have 8.5 Watts of input power and a 57.6 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for the US and Canada for installation on top of or remote from the fixture and shall be warranted for a full five years from date of purchase.

End-of-Lamp-Life Compatible

This emergency ballast incorporates a circuit that delays the AC ballast operation for approximately three (3) seconds. This delay prevents the false tripping of the AC ballast's end-of-lamp-life shutdown circuits.

Warranty

The B30 is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our web site.

Table 2 Lumen Output

LAMP	LUMENS	
	1 Lamp	2 Lamp
F14T5/HE	1630	
F21T5/HE	2421	
F28T5/HE	2400	
F35T5/HE	3000	
F39T5/HO	3000	
F49T5/HO	2700	
F54T5/HO	3000	
TL5C22W/840 Circline	2800	
TL5C40W Circline	2900	
FC12T5 55W Circline	3300	
F17T8	2050	1814
F25T8	2800	2721
F32T8	2420	3470
F40T8	3232	
F96T12/D/HO-O 110W	2098	
PL-L 24W	1936	
PL-L 36W	2013	
PL-L 40W	2658	
PL-L 55W	2834	
PL-T 18W	1295	
PL-T 26W	1670	
PL-T 42W	2395	
PL-Q (2D) 28W	1695	
PL-Q (2D) 38W	1995	
TLED T8 8.5W	886	
TLED T8 16.5W	1347	
TLED U T8 16.5W	1935	

Partial listing of lamps operated.

