



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

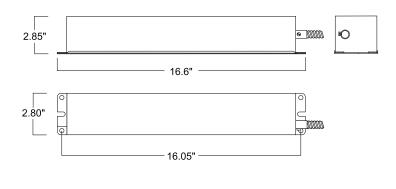
7.5 lbs. (3.41 kg)

#### **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 withan 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 onetwo-, 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.

#### 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 remoting 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 containedin 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	LUM	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-T18W	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.

# Table 1 Lamp Compatibility

LAMP DIAMETER (T5, T8, T9, T10, T12)	BASE	WATTAGE (Length)	NO. of LAMPS (EMERGENCY)	BROWN CONNECTOR	VIOLET CONNECTOR
1", 11/4", 11/2" (T8, T9, T10, T12)	Single or	17 - 40 W (2' - 4')	1	CLOSED	OPEN
			2	OPEN	CLOSED
	Bipin	40 - 215 W (5' -8')	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
T5 HO	HO Circline 4-PIN (2GX13)	22 - 55 W	1	CLOSED	OPEN
	Miniature Bipin	24 - 54W (2' - 4')	1	CLOSED	OPEN
T5	Miniature Bipin	14 - 35W (2' - 5')	1	CLOSED	OPEN



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