ELECTRONIC FLUORESCENT CONTROLLABLE BALLASTS

Fluorescent Ballasts - Dimming - Mark 7 0-10V

0-10V Electronic Dimming Ballasts for Linear Fluorescent and 4-Pin Compact Fluorescent Lamps

The Mark 7 0–10V series of dimmable electronic ballasts offer maximum versatility by incorporating separate control leads for use with a wide array of controllers, including occupancy sensors, daylight harvesting controls, and building management systems from more than 30 manufacturers.

When paired with linear fluorescent and 4-pin compact fluorescent lamps, Mark 7 0–10V ballasts optimize the benefits of such popular sustainable lighting techniques as daylight harvesting, occupancy sensors, and load shedding to satisfy the need for an affordable, flexible and versatile controllable lighting solution

Available in linear fluorescent and 4-pin compact fluorescent models

Making this ideal for a variety of applications

Full range continuous dimming (100% light output down to 5% - T5/HO to 1%)

Provides task appropriate comfort only where necessary to increase potential energy savings while supporting LEED performance standards

Programmed start operation

Potentially extends lamp life in frequent switching applications such as occupancy sensors and daylight harvesting

IntelliVolt technology (120 - 277V, 50/60Hz)

Enhances accuracy and ease of ordering while reducing stocking/SKU requirements



The following ballasts meet NEMA Premium®: IZT-132-SC, IZT-2S32-SC, IZT-3S32-SC, IZT-4S32, VZT-4S32-HL, VZT-4S32-G, VZT-4PSP32-G

As a licensee in the NEMA Premium Ballast Program, Philips Lighting Electronics N.A. has determined that these products meet the NEMA Premium specification for premium energy efficiency.

Note: Easy way to test dimming functionality of 0-10V dimming ballasts is to 'short' together the violet and grey control wires. If the lamps go to full dim, then the ballast is dimming fine.

For 14 - 28W T5 Lamps

HIGH POWER FACTOR SOUND RATED A



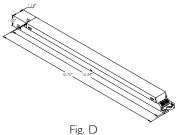


Mark 7 0-10V Electronic Dimming Ballast

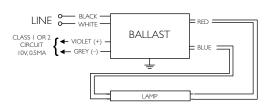
	Input Volts	Lamp Starting Method	Ballast Family	Catalog Number	Max/Min		Full Light Output		Min.		
No. of Lamps					Input Power ANSI (Watts)	Ballast Factor	THD %	Line Current (Amps)	Starting Temp. (°F/°C)	Dim.	Wiring Dia.
F14T5 (14W)											
I	120	DC	Mark 7	IZT-128-D	19/6	1.00/0.03	10	0.15-0.07	50/10	D	55A
2	277	PS	0-10V	IZT-2S28-D	34/9			0.29-0.12			56A
F21T5 (21W)											
I	120	DC	Mark 7	IZT-128-D	25/6	1.00/0.03	10	0.20-0.09	50/10	_	55A
2	277	PS	0-10V	OV IZT-2S28-D 49/10 1.00/0.03 10	10	0.42-0.18	50/10	D	56A		
F28T5 (25W)											
	120	PS	Mark 7	IZT-128-D	30/7	1.00/0.03	10	0.25-0.11	50/10	D	55A
2	277	PS PS	0-10V	IZT-2S28-D	59/12		10	0.51-0.21			56A
F28T5	F28T5 (28W)										
I	120	DC	Mark 7	IZT-128-D	32/7	1.00/0.03	10	0.27-0.12	50/10	D	55A
2	277	PS	0-10V	IZT-2S28-D	63/12			0.57-0.22			56A

Ballasts utilizing poke-in connectors can accept wire gauge AWG 16-20.

Some lamp manufacturers recommend burning in new lamps 100 hours at full light output prior to dimming. Consult lamp manufacturer.



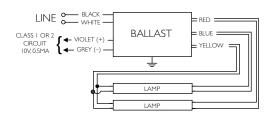
Includes connectors with no leads



Diag. 55A

Mark 7 0-10V Control Wiring (Grey and Violet)

Wire Size	Maximum Length (Ft.)
AWG-16	800
AWG-18	500
AWG-20	320



Diag. 56A

ONLY USE RAPID-START SOCKETS

Refer to pages 1-15 to 1-19 for information on remote/tandem wiring and lead length extension Refer to pages 2-32 & 2-33 for compatible low voltage controls Refer to pages 9-23 to 9-27 for lead lengths and shipping data

Catalog Number Explanation

Additional Features: Blank = None ZT _ МН 100 BLS ID = Integral I20V output to supply power to a 4-Wire Self Heating Thermal Protector (39W, 70W, 100W) Lead Exit / Mounting Options: BLS = Bottom Leads with Studs LF = Leads (side exit) with mounting Feet LFS = Leads (side exit, lead exit from same end) with mounting Feet (K metal case models only) LS = Connector (side exit) with mounting Feet Can Material / Size: (Dimensions include mounting feet) A/B = Metal case with dim. 5.5" L \times 3.6" W \times 1.5" H $K = Metal case with dim. 4.75" L \times 1.3" W \times 1.2" H$ M = Plastic case with dim. 5.9" L x 2.6" W x 2.6" H C = Metal case with dim. 8.0" L x 3.6" W x 1.5" H D = Metal case with dim. 5.0" L x 3.0" W x 1.5" H N = Plastic case with dim. 5.3" L x 2.6" W x 2.6" H E = Metal case with dim. 5.5" L x 1.75" W x 1.2" HR = Metal case with dim. 8.2" L \times 4.9" W \times 2.2" H G = Metal case with dim. 3.9" L \times 3.0" W \times 1.2" H T = Plastic case with dim. 6.3" L $\times 3.9$ " W $\times 2.4$ " H H = Metal case with dim. 6.4" L \times 3.7" W \times 1.5" H Max Lamp Wattage: G20 = 20W Lamp, ANSI C156/M156 P39 = 39W Lamp+ 60 = 60W Lamp 100 = 100W Lamp 175 = 175W Lamp 315 = 315W Elite Lamp 45 = 45W Lamp 70 = 70W Lamp 140 = 140W Lamp 210315 = 210 W or 315W Lamp 39 = 39 W Lamp, ANSI C130/M130 50 = 50W Lamp 90 = 90W Lamp 150 = 150W Lamp 210 = 210W Elite Lamp Number of Lamps: Blank = I Lamp Operation 2 = (2) Lamp Operation Primary Lamp Type: MH = Metal Halide CW = CosmoPolis ZT = 0-10V Dimming D = Programmable DALI Interface Dimming Scheme: Blank = Fixed Light Output

I = Intellivolt (accepts input of 120 thru 277V, 50/60 Hz nominal) ‡ R = 120V, 50/60 Hz nominal

[^] Philips 22W MiniMaster Color Lamp, ANSI C175/M175, with PGj5 base.

⁺ Philips 39W MiniMaster Color Lamp, ANSI C179/M179, with PGj5 base

 $[\]mbox{\rlap{$\sharp$}}$ For some models, Intellivolt is limited to 208 thru 277V