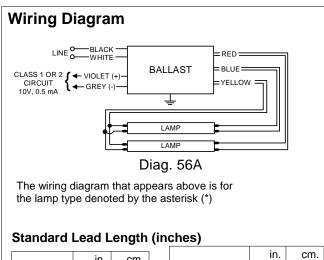
Electrical Specifications

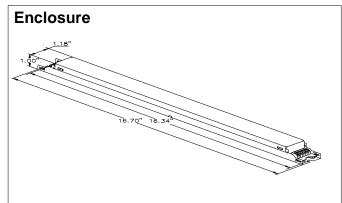
IZT-2S28-D@120V			
Brand Name	MARK 7 0-10V		
Ballast Type	Electronic Dimming		
Starting Method	Programmed Start		
Lamp Connection	Series		
Input Voltage	120-277		
Input Frequency	50/60 HZ		
Status	Active		

Lamp Type	Num. of	Rated Lamp	Min. Start Temp	Input Current	Input Power (Watts)	Ballast Factor (min/max)	MAX	Power Factor	Lamp Current Crest Factor	B.E.F.
	Lamps	Watts	(°F/C)	(Amps)	(min/max)	(IIIII/IIIax)	%	1 actor	Crest i actor	
F14T5	2	14	50/10	0.29	09/34	0.03/1.00	10	0.98	1.7	2.94
F21T5	2	21	50/10	0.42	10/49	0.03/1.00	10	0.98	1.7	2.04
* F28T5	2	28	50/10	0.57	12/63	0.03/1.00	10	0.98	1.7	1.59
F28T5/ES (25W)	2	25	50/10	0.51	12/59	0.03/1.00	10	0.98	1.7	1.69



	in.	cm.
Black	0	0
White	0	0
Blue	0	0
Red	0	0
Yellow	0	0
Gray	0	0
Violet	0	0

in.	cm.
	0
	0
	0
	0
	0
	0
	0
	in.



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
16.70 "	1.18 "	1.00 "	16.34 "
16 7/10	1 9/50	1	16 17/50
42.4 cm	3 cm	2.5 cm	41.5 cm



Revised 01/18/11

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Electrical Specifications

IZT-2S28-D@120V			
Brand Name	MARK 7 0-10V		
Ballast Type	Electronic Dimming		
Starting Method	Programmed Start		
Lamp Connection	Series		
Input Voltage	120-277		
Input Frequency	50/60 HZ		
Status	Active		

Notes:

Section I - Physical Characteristics

- 1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- 1.2 Ballast shall be available in a plastic/metal can or all metal can construction to meet all plenum requirements.
- 1.3 Ballast shall be provided with poke-in wire trap connectors or integral leads color coded per ANSI C82.11.

Section II - Performance Requirements

- 2.1 Ballast shall be Programmed Start.
- 2.2 VZT-4PSP32-G ballast shall provide Independent Lamp Operation (ILO) allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- 2.3 Ballast shall be provided with integral protection circuitry to withstand connection of low voltage control leads to mains power supply. In this event, ballast shall default to maximum light output.
- 2.4 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.5 Ballast shall operate from 50/60 Hz input source of 120V or 277V or 347V with sustained variations of +/- 10% (voltage and frequency). IntelliVolt models shall operate from 50/60 Hz input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency).
- 2.6 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.
- 2.7 Ballast shall have a Power Factor greater than 0.98 at full light output and greater than 0.90 throughout the dimming range for primary lamp.
- 2.8 Ballast shall have a minimum ballast factor of 1.00 (120V and 277V 1-3 lamp models) or 0.88 (120V and 277V 4 lamp models and 347V 2-3 lamp models) or 1.18 (277V 4 lamp HL models) at maximum light output and 0.03 at minimum light output for primary lamp.
- 2.9 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- 2.10 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage and 100% power.
- 2.11 Ballast shall have a Class A sound rating.
- 2.12 Ballast shall have a minimum starting temperature of 10C (50F) for primary lamp.
- 2.13 Ballast shall provide Lamp EOL Protection Circuit for all T5, T5/HO and CFL lamps.
- 2.14 Ballast shall control lamp light output from 100% 3% relative light output for series operation T8 and CFL lamps, 100% 10% relative light output for parallel operation T8 and 100% 1% relative light output for T5/HO lamps.
- 2.15 Ballast shall ignite the lamps at any light output setting without first going to another output setting.
- 2.16 Ballast shall tolerate sustained open circuit and short circuit output conditions.

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 comply with ANSI C62.41 Category A for Transient protection.
- 3.4 Ballast shall comply with ANSI C82.11 where applicable.
- 3.5 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).
- 3.6 Ballast shall comply with NEMA 410 for in-rush current limits.

Section IV - Other

- 4.1 Ballast shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
- 4.2 Ballast shall carry a five-year warranty from date of manufacture against defects in material or workmanship, including replacement, for operation at a maximum case temperature of 70C.
- 4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.
- 4.4 Ballast shall be controlled by a Class 1 or Class 2 low voltage 0-10VDC controller.

4.5 Ballast shall be Philips Advance part #	or approved equal.



Revised 01/18/11

Electrical Specifications

White

Blue

Red

Yellow

Gray

Violet

0

0

0

0

0

0

0

0

0

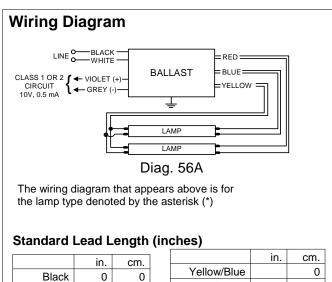
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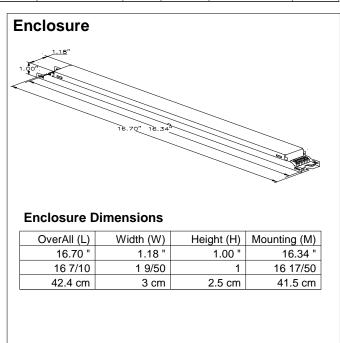
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IZT-2S28-D@277V			
Brand Name	MARK 7 0-10V		
Ballast Type	Electronic Dimming		
Starting Method	Programmed Start		
Lamp Connection	Series		
Input Voltage	120-277		
Input Frequency	50/60 HZ		
Status	Active		

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (Watts) (min/max)	Ballast Factor (min/max)	MAX THD %	Power Factor	Lamp Current Crest Factor	B.E.F.
F14T5	2	14	50/10	0.12	09/34	0.03/1.00	10	0.98	1.7	2.94
F21T5	2	21	50/10	0.18	10/49	0.03/1.00	10	0.98	1.7	2.04
* F28T5	2	28	50/10	0.22	12/63	0.03/1.00	10	0.98	1.7	1.59
F28T5/ES (25W)	2	25	50/10	0.21	12/59	0.03/1.00	10	0.98	1.7	1.69



	in.	cm.
Yellow/Blue		0
Blue/White		0
Brown		0
Orange		0
Orange/Black		0
Black/White		0
Red/White		0





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Electrical Specifications

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Brand Name	MARK 7 0-10V		
Ballast Type	Electronic Dimming		
Starting Method	Programmed Start		
Lamp Connection	Series		
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Status	Active		

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- 3.4 Ballast shall comply with ANSI C82.11 where applicable.
- 3.5 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).
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