



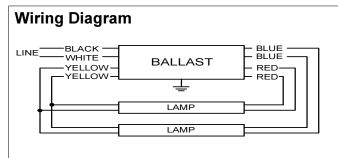
by (s) ignify

Optanium

IOP2PSP32LWN

Electrical Specifications at 120V

Lamp Type	Num. of	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI	Ballast Factor	MAX THD	Power Factor	MAX Lamp Current Crest	B.E.F.
	Lamps	-			Watts)		%		Factor	
F17T8	1	17	0/-18	0.13	16	0.79	10	0.95	1.6	4.94
F17T8	2	17	0/-18	0.20	25	0.71	10	0.97	1.6	2.84
F25T8	1	25	0/-18	0.17	21	0.77	10	0.96	1.6	3.67
F25T8	2	25	0/-18	0.29	35	0.71	10	0.98	1.6	2.03
F32T8	1	32	0/-18	0.22	26	0.73	10	0.97	1.6	2.81
* F32T8	2	32	0/-18	0.40	47	0.71	10	0.99	1.6	1.51
F32T8/ES (25W)	1	25	60/16	0.18	22	0.77	10	0.99	1.6	3.50
F32T8/ES (25W)	2	25	60/16	0.32	38	0.72	10	0.99	1.6	1.89
F32T8/ES (28W)	1	28	60/16	0.19	23	0.74	10	0.98	1.6	3.22
F32T8/ES (28W)	2	28	60/16	0.34	41	0.71	10	0.99	1.6	1.73
F32T8/ES (30W)	1	30	60/16	0.20	24	0.72	10	0.97	1.6	3.00
F32T8/ES (30W)	2	30	60/16	0.36	43	0.71	10	0.98	1.6	1.65



Diag. 21

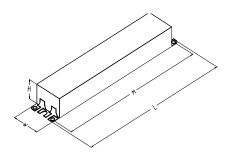
The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.
Black	25	63.5
White	25	63.5
Blue	33	83.8
Red	33	83.8
Yellow	48	121.9
Gray		0
Violet		0

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

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.5 "	1.3 "	1.0 "	8.9 "
9 1/2	1 3/10	1	8 9/10
24.1 cm	3.3 cm	2.5 cm	22.6 cm

Revised 07/25/14

IOP2PSP32LWN@120V		
Brand Name	OPTANIUM	
Ballast Type	Electronic	
Starting Method	Programmed Start	
Lamp Connection	Parallel	
Input Voltage	120-277	
Input Frequency	50/60 HZ	
Status	Active	

Electrical Specifications

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 provided with integral leads color-coded per ANSI C82.11.

Section II - Performance

- 2.1 Ballast shall be _____ (Instant or Programmed) Start.
- 2.2 Ballast shall provide Independent Lamp Operation (ILO) for Instant Start or Programmed Start Parallel ballasts allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- 2.3 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.4 Ballast shall operate from 50/60 Hz input source of _____ (120V through 277V or 347V) with sustained variations of +/- 10% (voltage and frequency).
- 2.5 Ballast shall be high frequency electronic type and operate lamps at a frequency between 42 kHz and 52 kHz to avoid interference with infrared devices, eliminate visible flicker and avoid Article Surveillance System, such as anti-theft devices.
- 2.6 Ballast shall have a Power Factor greater than 0.98 for primary lamp.
- 2.7 Ballast shall have a minimum ballast factor for primary lamp application as follows: 0.77 for Low Watt, 0.87 for Normal Light Output, and
- 1.18 for High Light for Instant Start ballasts or 0.71 for Low Watt and 0.88 for Normal Light Output for Programmed Start ballasts.
- 2.8 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- 2.9 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp.
- 2.10 Ballast shall have a Class A sound rating for all 4-foot lamps and smaller.
- 2.11 Ballast shall have a minimum starting temperature of -29C (-20F) on Instant Start ballasts or -18C (0F) on Programmed Start ballasts for standard T8 lamps and 16C (60F) for energy-saving T8 lamps. Consult lamp manufacturer for temperature versus light output characteristics.
- 2.12 Ballast shall tolerate sustained open circuit and short circuit output conditions.
- 2.13 Ballast shall have lamp striation-reduction circuitry.
- 2.14 Maximum distance for Energy Saving Lamps in Remote/Tandem wiring applications shall be 6 feet for Instant Start and Programmed Start models.

Section III - Regulatory

- 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 applicable requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.
- 3.6 Ballast shall meet NEMA Premium/CEE High Performance T8 Lighting System Specifications.
- 3.7 IOP or GOP ballast shall comply with UL Type CC rating.
- 3.8 Ballast shall comply with NEMA 410 for in-rush current limits.
- 3.9 Ballast shall meet RoHS Compliance Standards

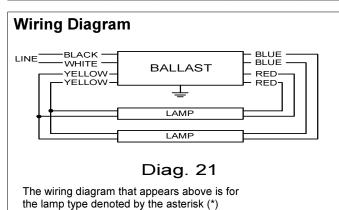
Section IV - Other

- 4.1 Ballast shall be manufactured in an ISO 9001 Qualified factory.
- 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. Ballasts with a "90C" designation in their catalog number shall also carry a three-year warranty at maximum case temperature of 90C.
- 4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.
- 4.4 Energy-saving T8 lamps (25W, 28W or 30W) may experience lamp striations if operated on ballasts not rated for their use.

Revised 07/25/14

Electrical Specifications at 277V

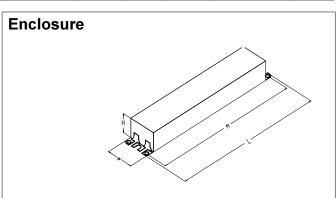
Lamp Type	Num. of	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI	Ballast Factor	MAX THD	Power Factor	MAX Lamp Current Crest	B.E.F.
	Lamps				Watts)		%		Factor	
F17T8	1	17	0/-18	0.06	16	0.79	10	0.94	1.6	4.94
F17T8	2	17	0/-18	0.09	24	0.71	10	0.97	1.6	2.96
F25T8	1	25	0/-18	0.08	21	0.77	10	0.96	1.6	3.67
F25T8	2	25	0/-18	0.13	34	0.71	10	0.98	1.6	2.09
F32T8	1	32	0/-18	0.10	26	0.73	10	0.97	1.6	2.81
* F32T8	2	32	0/-18	0.17	46	0.72	10	0.98	1.6	1.57
F32T8/ES (25W)	1	25	60/16	0.08	22	0.77	10	0.97	1.6	3.50
F32T8/ES (25W)	2	25	60/16	0.14	37	0.72	10	0.99	1.6	1.95
F32T8/ES (28W)	1	28	60/16	0.09	23	0.74	10	0.98	1.6	3.22
F32T8/ES (28W)	2	28	60/16	0.15	40	0.71	10	0.97	1.6	1.78
F32T8/ES (30W)	1	30	60/16	0.09	24	0.72	10	0.97	1.6	3.00
F32T8/ES (30W)	2	30	60/16	0.15	42	0.71	10	0.98	1.6	1.69



Standard Lead Length (inches)

	in.	cm.
Black	25	63.5
White	25	63.5
Blue	33	83.8
Red	33	83.8
Yellow	48	121.9
Gray		0
Violet		0

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



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.5 "	1.3 "	1.0 "	8.9 "
9 1/2	1 3/10	1	8 9/10
24.1 cm	3.3 cm	2.5 cm	22.6 cm

Revised 03/28/14

IOP2PSP32LWN@277V		
Brand Name	OPTANIUM	
Ballast Type	Electronic	
Starting Method	Programmed Start	
Lamp Connection	Parallel	
Input Voltage	120-277	
Input Frequency	50/60 HZ	
Status	Active	

Electrical Specifications

Notes:

Section I - Physical Characteristics

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- 2.6 Ballast shall have a Power Factor greater than 0.98 for primary lamp.
- 2.7 Ballast shall have a minimum ballast factor for primary lamp application as follows: 0.77 for Low Watt, 0.87 for Normal Light Output, and
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- 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.
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- 3.6 Ballast shall meet NEMA Premium/CEE High Performance T8 Lighting System Specifications.
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Section IV - Other

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Revised 03/28/14

 $The information\ presented\ in\ this\ document\ is\ not\ intended\ as\ any\ commercial\ offer\ and\ does\ not\ form\ part\ of\ any\ quotation\ or\ contract.$

