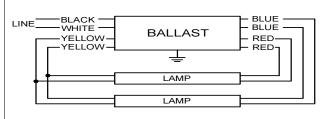


Electrical Specifications

N-2S86-SC@120V					
Brand Name CENTIUM	Brand Name				
Ballast Type Electronic	Ballast Type				
ting Method Programmed Start	Starting Method				
Connection Series	Lamp Connection				
put Voltage 120-277	Input Voltage				
t Frequency 50/60HZ	Input Frequency				
Status Active	Status				

Lamp Type	Num.	Rated Lamp	Min. Start	Input Current	Input Power	Ballast	MAX	Power	MAX Lamp	B.E.F.
	of Lamps	Watts	Temp (°F/C)	(Amps)	(ANSI Watts)	Factor	THD %	Factor	Current Crest Factor	
	Lamps						/0		1 actor	
F48T8/HO	1	44	-20/-29	0.40	48	0.99	20	0.99	1.6	2.06
F48T8/HO	2	44	-20/-29	0.77	93	0.98	10	0.99	1.6	1.05
F72T8/HO	1	65	-20/-29	0.59	71	1.02	15	0.99	1.6	1.44
F72T8/HO	2	65	-20/-29	1.15	138	1.00	10	0.99	1.6	0.72
F96T8/HO	1	86	-20/-29	0.77	92	1.02	10	0.99	1.6	1.11
* F96T8/HO	2	86	-20/-29	1.52	182	1.00	10	0.99	1.6	0.55



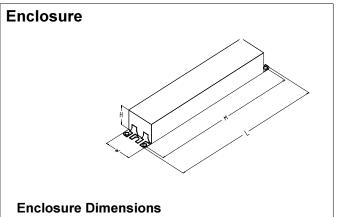


Diag. 21

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

Standard	Lead	Length	(inches)
----------	------	--------	----------

		-	, '		in.	cm.
	in.	cm.		Yellow/Blue		0
Black	22	55.9		Blue/White		0
White	22	55.9	1			0
Blue	46	116.8	1	Brown		0
			1	Orange		0
Red	46	116.8	-	Orange/Black		0
Yellow	70	<u>177.8</u> 0		Black/White		0
Gray				Red/White		0
Violet		0]	Tteu/Willite		0
u						



OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.50 "	1.7 "	1.18 "	8.90 "
9 1/2	1 7/10	1 9/50	8 9/10
24.1 cm	4.3 cm	3 cm	22.6 cm





Revised 05/20/15

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Philips Lighting Electronic N.A 10275 West Higgins Road Rosemont, IL 60018 Tel.: 800-322-2086 Fax: 888-432-1882 Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886

PHILIPS ADVANCE

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, Rapid or Programmed) Start.

2.2 Ballast shall provide Independent Lamp Operation (ILO) for Instant Start 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 (except T8/HO ballast).

2.4 Ballast shall operate from 50/60 Hz input source of ______ (120V through 277V or 347V through 480V) with sustained variations of +/- 10% (voltage and frequency).

2.5 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.

2.6 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: 0.75 for Low Watt, 0.85 for Normal Light Output and 1.20 for High Light.

 $2.8 \ \mbox{Ballast}$ 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 _____ [-18C (0F) for standard T8 and Long Twin Tube lamps, 10C (50F) for standard T12 lamps, 0C (32F) for Slimline T8 lamps, -29C (-20F) for HO lamps,] for primary lamp application. Ballast shall have a minimum starting temperature of 16C (60F) for energy-saving lamps.

2.12 Ballast shall tolerate sustained open circuit and short circuit output conditions.

2.13 Ballast for T8 lamps shall provide lamp striation-reduction circuitry.

2.14 Ballast for FT5 lamps shall provide lamp EOL protection circuitry.

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 comply with NEMA 410 for in-rush current limits.

3.7 Ballast for T8 lamps shall meet NEMA Premium/CEE High Performance T8 Lighting System Specifications.

3.8 Ballast shall meet RoHS Compliance Standards

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 Energy saving T8 lamps (25W, 28W or 30W) may experience lamp striations if operated on ballasts not rated for their use.



Revised 05/20/15

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Philips Lighting Electronic N.A.

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ICN-2S86-SC@120V					
Brand Name	CENTIUM				
Ballast Type	Electronic				
Starting Method	Programmed Start				
Lamp Connection	Series				
Input Voltage	120-277				
Input Frequency	50/60HZ				
Status	Active				

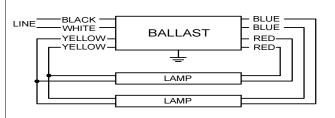


Electrical Specifications

ICN-2S86-SC@277V					
CENTIUM	Brand Name				
Electronic	Ballast Type				
Programmed Start	Starting Method				
Series	Lamp Connection				
120-277	Input Voltage				
50/60HZ	Input Frequency				
Active	Status				

Lamp Type	Num. of	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD	Power Factor	MAX Lamp Current Crest	B.E.F.
	Lamps						%		Factor	
F48T8/HO	1	44	-20/-29	0.19	48	0.99	30	0.90	1.6	2.06
F48T8/HO	2	44	-20/-29	0.35	92	0.99	15	0.96	1.6	1.08
F72T8/HO	1	65	-20/-29	0.27	71	1.02	20	0.94	1.6	1.44
F72T8/HO	2	65	-20/-29	0.51	137	1.00	10	0.98	1.6	0.73
F96T8/HO	1	86	-20/-29	0.34	92	1.02	15	0.96	1.6	1.11
* F96T8/HO	2	86	-20/-29	0.65	178	1.00	10	0.99	1.6	0.56

Wiring Diagram

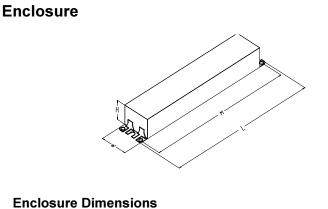


Diag. 21

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

Standard Lead Length (inches)

				-	in.	cm.
	in.	cm.		Yellow/Blue		0
Black	22	55.9		Blue/White		0
White	22	55.9				0
Blue	46	116.8		Brown		0
Red	46	116.8		Orange		0
				Orange/Black		0
Yellow	70	177.8		Black/White		0
Gray		0		Red/White		0
Violet		0				•
			-			



Γ OverAll (L) Width (W) Height (H) Mounting (M)

			Mounting (M)
9.50 "	1.7 "	1.18 "	8.90 "
9 1/2	1 7/10	1 9/50	8 9/10
24.1 cm	4.3 cm	3 cm	22.6 cm



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PHILIPS ADVANCE

Electrical Specifications

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2.14 Ballast for FT5 lamps shall provide lamp EOL protection circuitry.

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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 comply with NEMA 410 for in-rush current limits.

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Section IV - Other

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ICN-2S86-SC@277V					
Brand Name	CENTIUM				
Ballast Type	Electronic				
Starting Method	Programmed Start				
Lamp Connection	Series				
Input Voltage	120-277				
Input Frequency	50/60HZ				
Status	Active				