

## **ADVANCE**

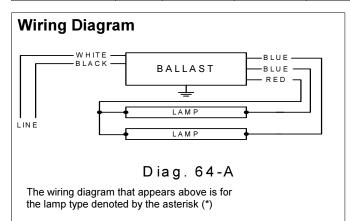
by (Signify

### Centium

ICN2P60N

## **Electrical Specifications at 120V**

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	
F72T12	1	57	0/-18	0.70	68	1.05	10	0.98	1.7	1.54
* F72T12	2	57	0/-18	0.91	108	0.92	10	0.98	1.6	0.85
F96T12	1	75	0/-18	0.55	84	1.04	10	0.98	1.7	1.24
F96T12	2	75	0/-18	1.13	135	0.88	10	0.99	1.6	0.65
F96T12/ES	1	60	60/16	0.53	70	1.04	10	0.98	1.7	1.49
F96T12/ES	2	60	60/16	0.90	108	0.87	10	0.99	1.6	0.81

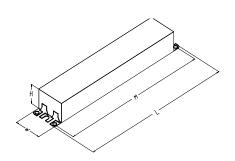


### Standard Lead Length (inches)

		•
	in.	cm.
Black	25	63.5
White	25	63.5
Blue	46	116.8
Red	79	200.7
Yellow		0
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







## Centium ICN2P60N

### **Electrical Specifications at 120V**

ICN-2P60-N@120V				
Brand Name	CENTIUM			
Ballast Type	Electronic			
Starting Method	Instant Start			
Lamp Connection	Parallel			
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 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 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.









Ballasts

Centium

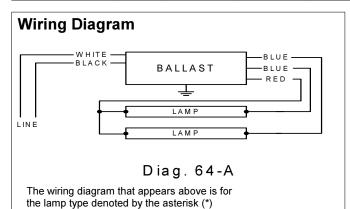
ICN2P60N

### **Electrical Specifications at 277V**

**ADVANCE** 

by (Signify

Lamp Type	Num. of Lamps	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 Factor	B.E.F.
F72T12	1	57	0/-18	0.31	67	1.05	10	0.98	1.6	1.57
F72T12	2	57	0/-18	0.40	107	0.92	10	0.98	1.6	0.86
F96T12	1	75	0/-18	0.25	82	1.04	10	0.98	1.6	1.27
* F96T12	2	75	0/-18	0.48	132	0.88	10	0.99	1.6	0.67
F96T12/ES	1	60	60/16	0.24	68	1.04	10	0.98	1.6	1.53
F96T12/ES	2	60	60/16	0.39	106	0.87	10	0.99	1.6	0.82

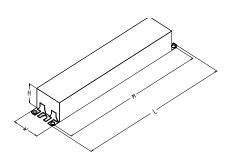


### Standard Lead Length (inches)

	in.	cm.
Black	25	63.5
White	25	63.5
Blue	46	116.8
Red	79	200.7
Yellow		0
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 "	
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24.1 cm	3.3 cm	2.5 cm	22.6 cm	







## Centium ICN2P60N

### Brand Name | CENTIUM Ballast Type | Electronic Starting Method Instant Start **Electrical Specifications at 277V** Lamp Connection | Parallel Input Voltage | 120-277 Input Frequency 50/60 HZ Status | Active

ICN-2P60-N@277V

#### 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).
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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: 0.75 for Low Watt, 0.85 for Normal Light Output and 1.20 for High Light.
- 2.8 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
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- 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.
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#### Section IV - Other

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

