

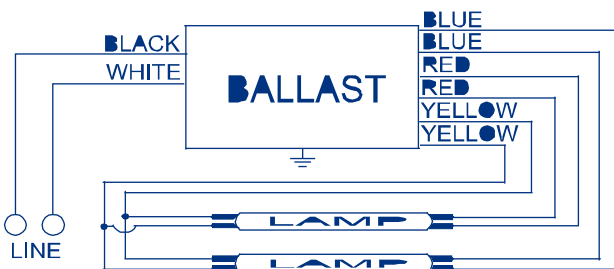
ICN-2S110-SC@120V

| | |
|-----------------|-------------|
| Brand Name | CENTIUM |
| Ballast Type | Electronic |
| Starting Method | Rapid Start |
| Lamp Connection | Series |
| Input Voltage | 120-277 |
| Input Frequency | 50/60 HZ |
| Status | Active |

Electrical Specifications

| 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 . |
|--------------|---------------|------------------|------------------------|----------------------|--------------------------|----------------|-----------|--------------|-------------------------------|---------|
| F48T12/HO | 1 | 60 | -20/-29 | 0.43 | 49 | 1.15 | 10 | 0.95 | 1.7 | 2.35 |
| F48T12/HO | 2 | 60 | -20/-29 | 0.82 | 93 | 0.90 | 10 | 0.95 | 1.7 | 0.97 |
| F60T12/HO | 1 | 75 | -20/-29 | 0.52 | 59 | 1.10 | 10 | 0.95 | 1.7 | 1.86 |
| F60T12/HO | 2 | 75 | -20/-29 | 0.98 | 116 | 1.00 | 10 | 0.98 | 1.7 | 0.86 |
| F72T12/HO | 1 | 85 | -20/-29 | 0.63 | 72 | 1.10 | 10 | 0.95 | 1.7 | 1.53 |
| F72T12/HO | 2 | 85 | -20/-29 | 1.19 | 140 | 0.90 | 10 | 0.98 | 1.7 | 0.64 |
| F96T12/HO | 1 | 110 | -20/-29 | 0.88 | 100 | 0.91 | 10 | 0.95 | 1.6 | 0.91 |
| * F96T12/HO | 2 | 110 | -20/-29 | 1.64 | 194 | 0.89 | 10 | 0.98 | 1.6 | 0.46 |
| F96T12/HO/ES | 1 | 95 | 60/16 | 0.68 | 78 | 0.91 | 10 | 0.95 | 1.6 | 1.17 |
| F96T12/HO/ES | 2 | 95 | 60/16 | 1.30 | 154 | 0.89 | 10 | 0.98 | 1.6 | 0.58 |

Wiring Diagram

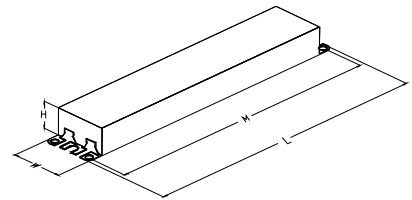


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

| | in. | cm. | | in. | cm. |
|--------|-----|-------|--------------|-----|-----|
| Black | 25 | 63.5 | Yellow/Blue | | 0 |
| White | 25 | 63.5 | Blue/White | | 0 |
| Blue | 46 | 116.8 | Brown | | 0 |
| Red | 46 | 116.8 | Orange | | 0 |
| Yellow | 79 | 200.7 | Orange/Black | | 0 |
| Gray | | 0 | Black/White | | 0 |
| Violet | | 0 | Red/White | | 0 |

Enclosure



Enclosure Dimensions

| OverAll (L) | Width (W) | Height (H) | Mounting (M) |
|-------------|-----------|------------|--------------|
| 9.50 " | 1.7 " | 1.18 " | 8.90 " |
| 24.1 cm | 4.3 cm | 3 cm | 22.6 cm |

Revised 07/28/2010



Data is based upon tests performed by Philips Lighting Electronics N.A. in a controlled environment and is representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

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| Ballast Type | Electronic |
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| Lamp Connection | Series |
| 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 Requirements

- 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 and FT5 ballasts).
- 2.4 Ballast shall operate from 60 Hz input source of 120V, 277V or 347V as applicable 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).
- 2.5 Ballast shall be high frequency electronic type and operate lamps at a frequency above 42 kHz ("GCN" models between 20 kHz and 30kHz) 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 20% for Standard models and THD of less than 10% for Centium models 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 and "GCN" models, -29C (-20F) for T8/HO lamps,] for primary lamp application. Ballast shall have a minimum starting temperature of 60F (16C) for energy-saving lamps.
- 2.12 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.

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

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