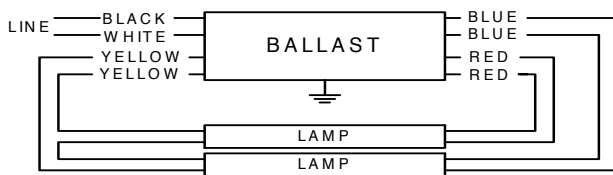


Electrical Specifications at 120V

| 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. |
|-------------------|---------------|------------------|-----------------------|----------------------|--------------------------|----------------|-----------|--------------|-------------------------------|--------|
| F54T5/HO | 1 | 54 | -20/-29 | 0.52 | 62 | 1.02 | 15 | 0.98 | 1.7 | 1.65 |
| * F54T5/HO | 2 | 54 | -20/-29 | 1.00 | 120 | 1.00 | 10 | 0.98 | 1.7 | 0.83 |
| F54T5/HO/ES (49W) | 1 | 49 | -20/-29 | 0.50 | 60 | 1.10 | 15 | 0.98 | 1.7 | 1.83 |
| F54T5/HO/ES (49W) | 2 | 49 | -20/-29 | 0.93 | 110 | 1.04 | 10 | 0.98 | 1.7 | 0.95 |
| FT36W/2G11 | 1 | 36 | -20/-29 | 0.39 | 46 | 1.11 | 20 | 0.98 | 1.7 | 2.41 |
| FT36W/2G11 | 2 | 36 | -20/-29 | 0.75 | 90 | 1.11 | 10 | 0.98 | 1.7 | 1.23 |
| FT50W/2G11 | 1 | 50 | -20/-29 | 0.51 | 61 | 1.14 | 15 | 0.98 | 1.7 | 1.87 |
| FT50W/2G11 | 2 | 50 | -20/-29 | 0.99 | 118 | 1.07 | 10 | 0.98 | 1.7 | 0.91 |
| FT55W/2G11 | 1 | 55 | -20/-29 | 0.49 | 58 | 0.98 | 15 | 0.98 | 1.7 | 1.69 |
| FT55W/2G11 | 2 | 55 | -20/-29 | 0.94 | 112 | 0.93 | 10 | 0.98 | 1.7 | 0.83 |

Wiring Diagram



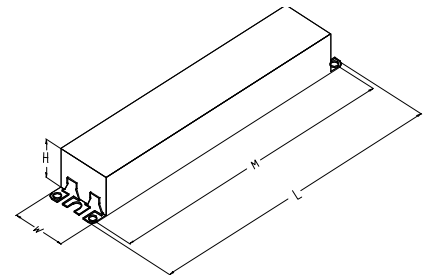
Diag. 74

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 | 27 | 68.6 | Brown | | 0 |
| Red | 27 | 68.6 | Orange | | 0 |
| Yellow | 42 | 106.7 | Orange/Black | | 0 |
| Gray | | 0 | Black/White | | 0 |
| Violet | | 0 | Red/White | | 0 |

Enclosure



Enclosure Dimensions

| OverAll (L) | Width (W) | Height (H) | Mounting (M) |
|-------------|-----------|------------|--------------|
| 9.5 " | 1.3 " | 1.0 " | 8.9 " |
| 24.1 cm | 3.3 cm | 2.5 cm | 22.6 cm |



Revised 09/02/11

| ICN2S54N@120V | |
|-----------------|-------------------------|
| Brand Name | CENTIUM T5 |
| Ballast Type | Electronic |
| Starting Method | Programmed Start |
| Lamp Connection | Series |
| Input Voltage | 120-277 |
| Input Frequency | 50/60 HZ |
| Status | Active |

Electrical Specifications at 120V

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 or poke-in wire trap connectors color-coded per ANSI C82.11.

Section II - Performance

- 2.1 Ballast shall be Programmed Start.
- 2.2 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.3 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).
- 2.4 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.
- 2.5 Ballast shall have a Power Factor greater than 0.98 for primary lamp.
- 2.6 Ballast shall have a minimum ballast factor of 1.0 for primary lamp application.
- 2.7 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- 2.8 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp.
- 2.9 Ballast shall have a Class A sound rating.
- 2.10 Ballast shall have a minimum starting temperature of _____ {-18C (0F) or -29C (-20F)} for primary lamp. Consult lamp manufacturer for temperature versus light output characteristics.
- 2.11 Ballast shall provide Lamp EOL Protection Circuit.
- 2.12 Ballast shall tolerate sustained open circuit and short circuit output conditions.
- 2.13 Four-lamp ballast shall have (semi-independent or independent) lamp operation.

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 UL Type CC rating.
- 3.7 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. Ballasts with a "90C" designation in their catalog number shall also carry a three-year warranty at a maximum case temperature of 90C.
- 4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.



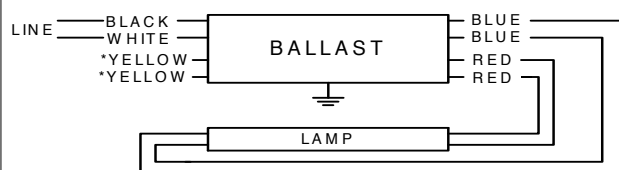
Revised 09/02/11

Centium T5 ICN2S54N

Electrical Specifications at 277V

| 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. |
|---------------------|---------------|------------------|-------------------------|----------------------|--------------------------|----------------|-----------|--------------|-------------------------------|--------|
| F54T5/HO | 1 | 54 | -20/-29 | 0.23 | 62 | 1.00 | 15 | 0.98 | 1.7 | 1.61 |
| F54T5/HO | 2 | 54 | -20/-29 | 0.43 | 116 | 1.00 | 10 | 0.98 | 1.7 | 0.86 |
| * F54T5/HO/ES (49W) | 1 | 49 | -20/-29 | 0.22 | 60 | 1.10 | 15 | 0.98 | 1.7 | 1.83 |
| F54T5/HO/ES (49W) | 2 | 49 | -20/-29 | 0.40 | 110 | 1.04 | 10 | 0.98 | 1.7 | 0.95 |
| FT36W/2G11 | 1 | 36 | -20/-29 | 0.18 | 46 | 1.11 | 20 | 0.98 | 1.7 | 2.41 |
| FT36W/2G11 | 2 | 36 | -20/-29 | 0.32 | 87 | 1.11 | 10 | 0.98 | 1.7 | 1.28 |
| FT50W/2G11 | 1 | 50 | -20/-29 | 0.23 | 61 | 1.14 | 15 | 0.98 | 1.7 | 1.87 |
| FT50W/2G11 | 2 | 50 | -20/-29 | 0.43 | 115 | 1.07 | 10 | 0.98 | 1.7 | 0.93 |
| FT55W/2G11 | 1 | 55 | -20/-29 | 0.22 | 58 | 0.98 | 15 | 0.98 | 1.7 | 1.69 |
| FT55W/2G11 | 2 | 55 | -20/-29 | 0.41 | 109 | 0.93 | 10 | 0.98 | 1.7 | 0.85 |

Wiring Diagram



*INSULATE YELLOW LEADS INDIVIDUALLY FOR 600V

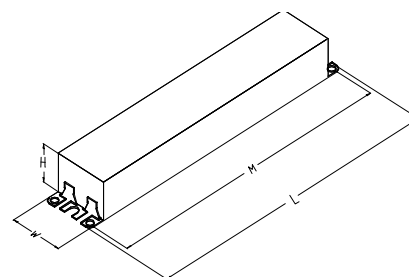
Diag. 73

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

Standard Lead Length (inches)

| | in. | cm. | | in. | cm. |
|--------|-----|-------|--------------|-----|-----|
| Black | 24 | 61 | Yellow/Blue | | 0 |
| White | 24 | 61 | Blue/White | | 0 |
| Blue | 27 | 68.6 | Brown | | 0 |
| Red | 27 | 68.6 | Orange | | 0 |
| Yellow | 47 | 119.4 | Orange/Black | | 0 |
| Gray | | 0 | Black/White | | 0 |
| Violet | | 0 | Red/White | | 0 |

Enclosure



Enclosure Dimensions

| OverAll (L) | Width (W) | Height (H) | Mounting (M) |
|-------------|-----------|------------|--------------|
| 9.5 " | 1.3 " | 1.0 " | 8.9 " |
| 24.1 cm | 3.3 cm | 2.5 cm | 22.6 cm |



Revised 09/02/11

| ICN2S54N@277V | |
|-----------------|-------------------------|
| Brand Name | CENTIUM T5 |
| Ballast Type | Electronic |
| Starting Method | Programmed Start |
| Lamp Connection | Series |
| Input Voltage | 120-277 |
| Input Frequency | 50/60 HZ |
| Status | Active |

Electrical Specifications at 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 or poke-in wire trap connectors color-coded per ANSI C82.11.

Section II - Performance

- 2.1 Ballast shall be Programmed Start.
- 2.2 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.3 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).
- 2.4 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.
- 2.5 Ballast shall have a Power Factor greater than 0.98 for primary lamp.
- 2.6 Ballast shall have a minimum ballast factor of 1.0 for primary lamp application.
- 2.7 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- 2.8 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp.
- 2.9 Ballast shall have a Class A sound rating.
- 2.10 Ballast shall have a minimum starting temperature of _____ {-18C (0F) or -29C (-20F)} for primary lamp. Consult lamp manufacturer for temperature versus light output characteristics.
- 2.11 Ballast shall provide Lamp EOL Protection Circuit.
- 2.12 Ballast shall tolerate sustained open circuit and short circuit output conditions.
- 2.13 Four-lamp ballast shall have (semi-independent or independent) lamp operation.

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 UL Type CC rating.
- 3.7 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. Ballasts with a "90C" designation in their catalog number shall also carry a three-year warranty at a maximum case temperature of 90C.
- 4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.



Revised 09/02/11

Centium T5 ICN2S54N

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