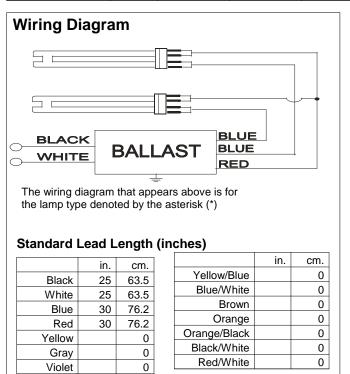
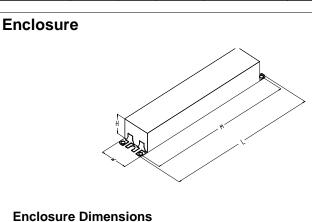


ICN-2TTP40-SC@120V					
Brand Name	CENTIUM				
Ballast Type	Electronic				
Starting Method	Instant Start				
Lamp Connection	Parallel				
Input Voltage	120-277				
Input Frequency	50/60 HZ				
Status	Active				

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.
FT40W/2G11	1	40	0/-18	0.35	41	0.88	10	0.98	1.5	2.15
* FT40W/2G11	2	40	0/-18	0.57	68	0.88	10	0.98	1.5	1.29
FT40W/2G11/ES (25W)	1	25	0/-18	0.29	35	1.00	10	0.98	1.6	2.86
FT40W/2G11/ES (25W)	2	25	0/-18	0.48	58	0.88	10	0.98	1.6	1.52
FT40W/2G11/RS	1	40	0/-18	0.35	41	0.88	10	0.98	1.5	2.15
FT40W/2G11/RS	2	40	0/-18	0.57	68	0.88	10	0.98	1.5	1.29





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 07/22/09

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Electrical Specifications

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.





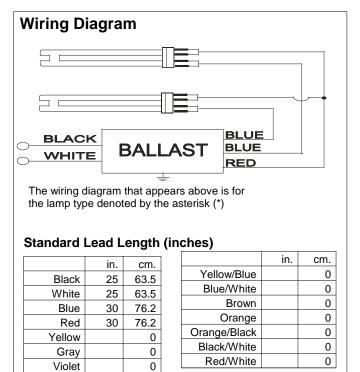
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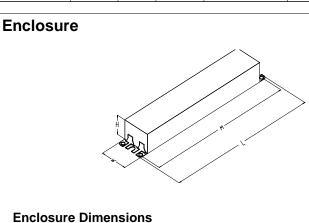
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ICN-2TTP40-SC@277V					
Brand Name	CENTIUM				
Ballast Type	Electronic				
Starting Method	Instant Start				
Lamp Connection	Parallel				
Input Voltage	120-277				
Input Frequency	50/60 HZ				
Status	Active				

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.
FT40W/2G11	1	40	0/-18	0.15	41	0.88	10	0.98	1.5	2.15
* FT40W/2G11	2	40	0/-18	0.25	67	0.88	10	0.98	1.5	1.31
FT40W/2G11/ES (25W)	1	25	0/-18	0.13	35	1.00	10	0.98	1.6	2.86
FT40W/2G11/ES (25W)	2	25	0/-18	0.21	57	0.88	10	0.98	1.6	1.54
FT40W/2G11/RS	1	40	0/-18	0.15	41	0.88	10	0.98	1.5	2.15
FT40W/2G11/RS	2	40	0/-18	0.25	67	0.88	10	0.98	1.5	1.31





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



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	Ballast Type	Electronic
ADVANCE	Starting Method	Instant Start
TRANSFORMER CO.	Lamp Connection	Parallel
cal Specifications	Input Voltage	120-277
	Input Frequency	50/60 HZ
es:	Status	Active

ICN-2TTP40-SC@277V Brand Name | CENTIUM

Notes:

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- 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

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- 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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