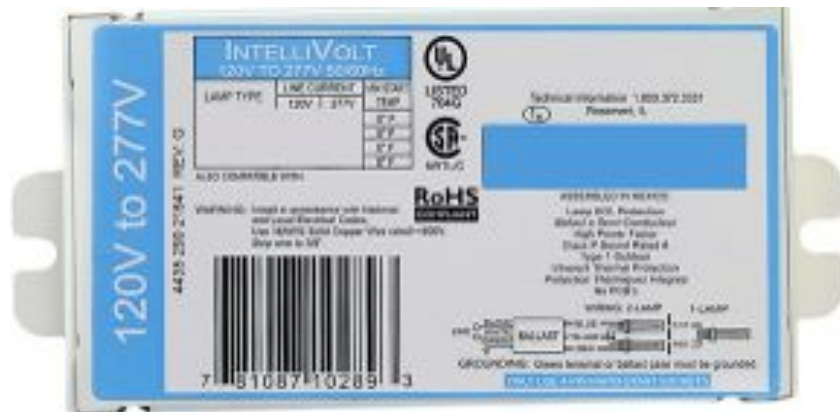


ELECTRONIC BALLAST



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ELECTRONIC BALLAST NOT DIMMERABLE

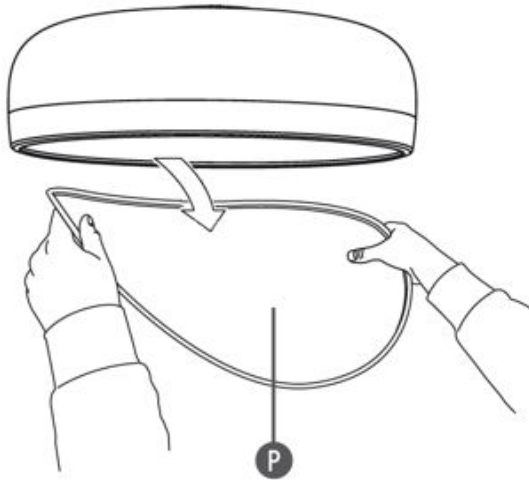


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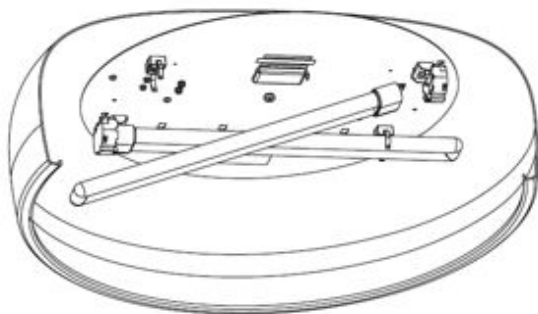
DIMMERABLE ELECTRONIC BALLAST

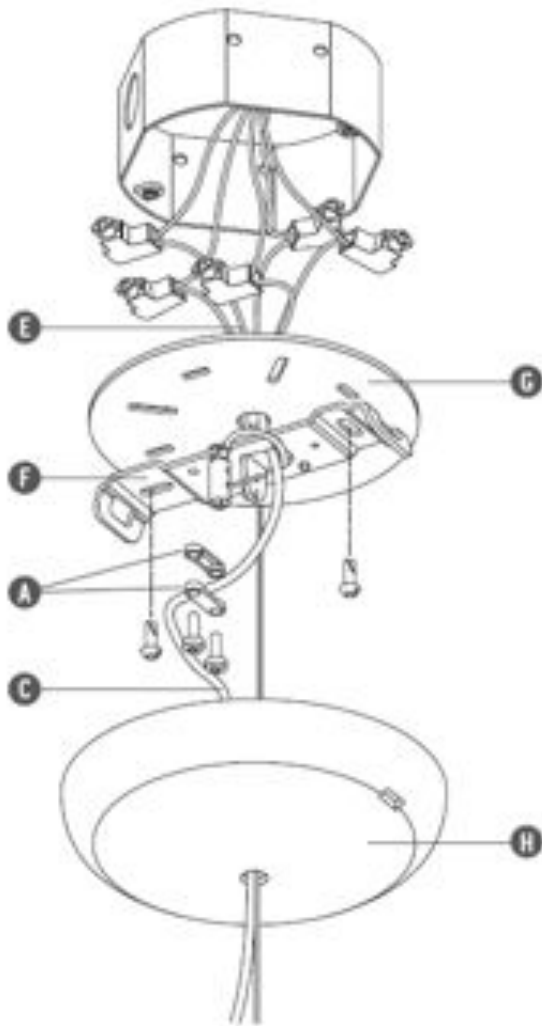
WARNING! When installing and whenever acting on the appliance, ensure that the power supply has been switched off.

For the installation of the spare-part, it is necessary to consult a qualified electrician.



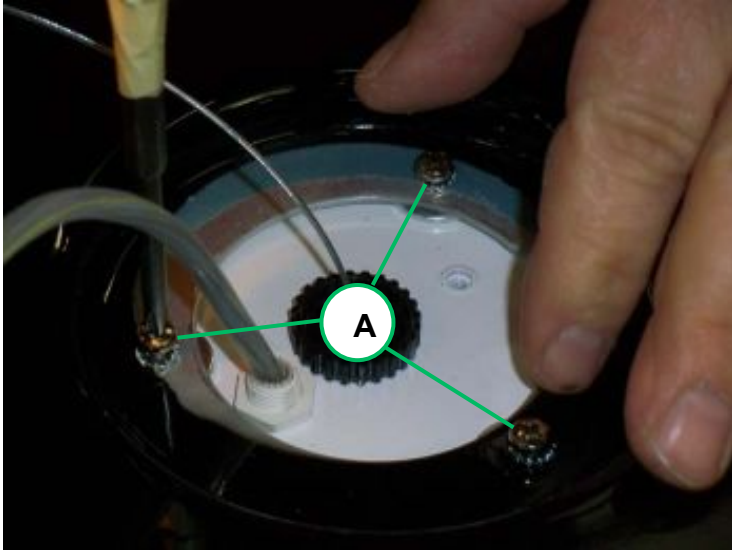
Remove the lamp diffuser (P) and the lamp bulbs.



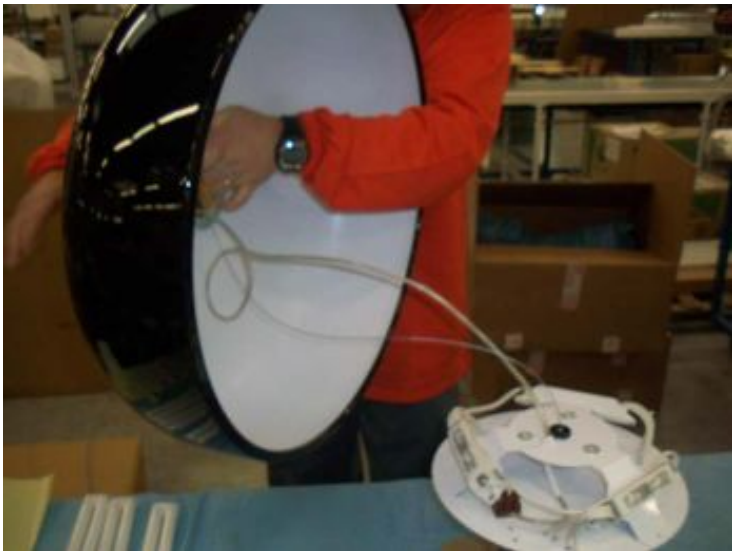


To proceed in replace the electronic ballast, it is necessary to remove the lamp fixture from the ceiling.

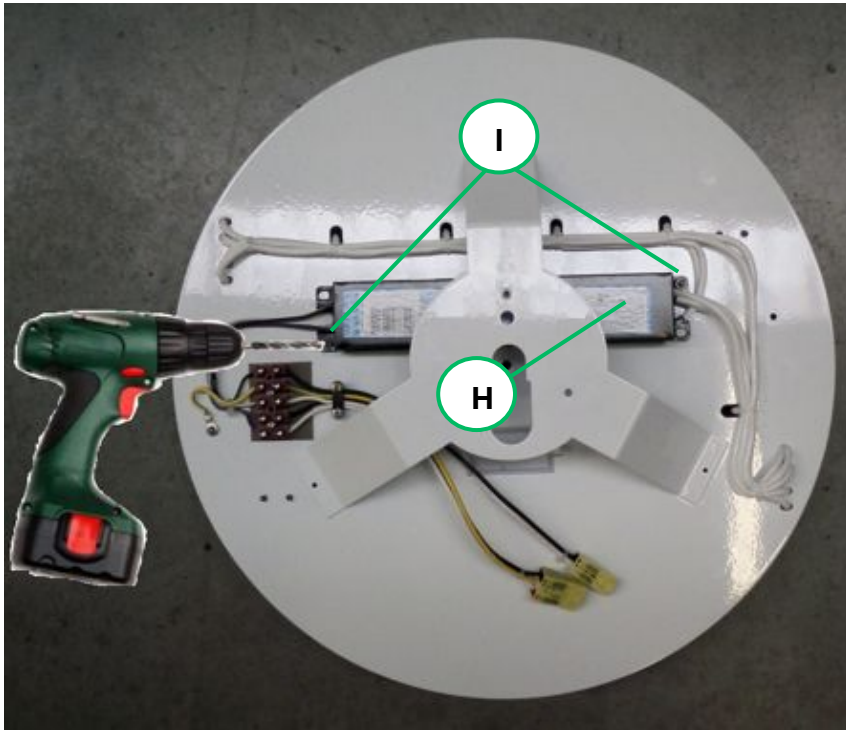
Remove the ceiling rose (H), remove the plate (G) by unfastening the fixing screws and disconnect the electrical wires in the junction box.



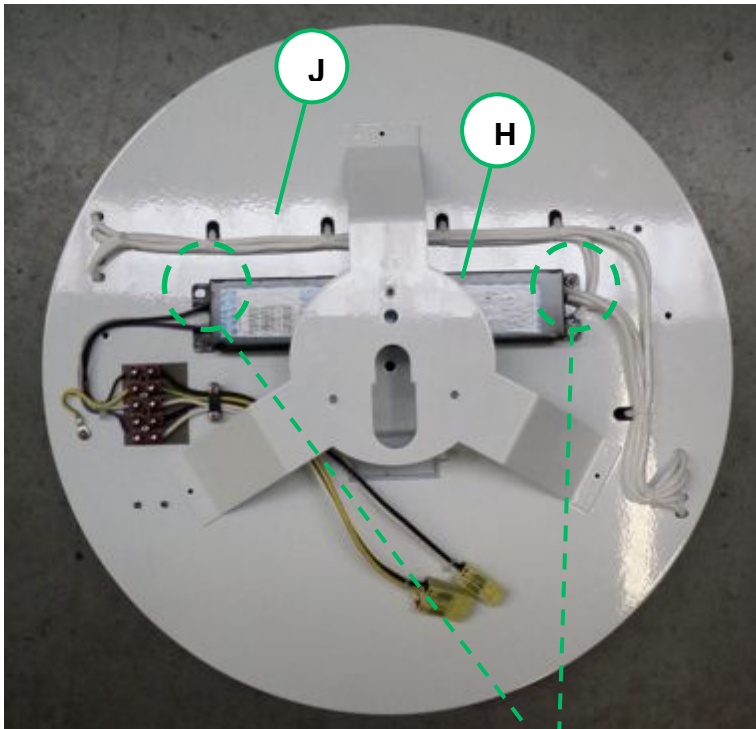
Unfasten the three fixing screws (A) and remove the external structure.



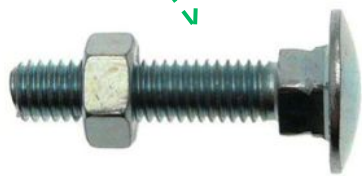
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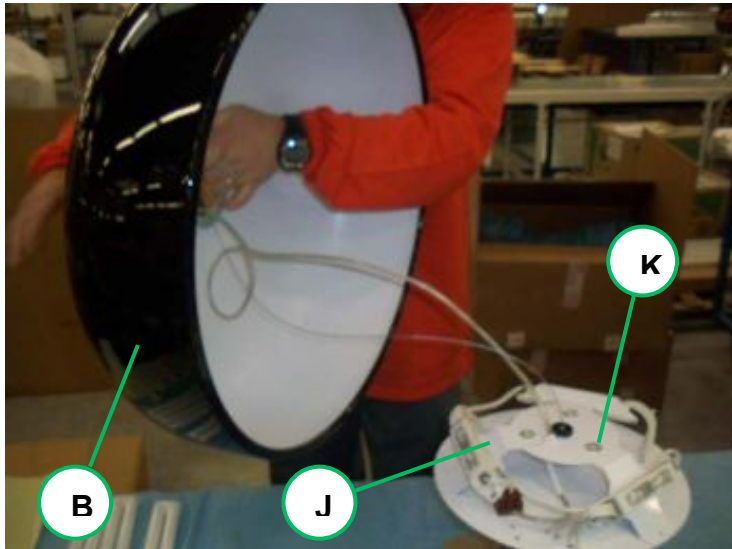


**Remove damaged electronic ballast (H).
Drill the pivots (I) with a driller and then disconnect the
wires.**



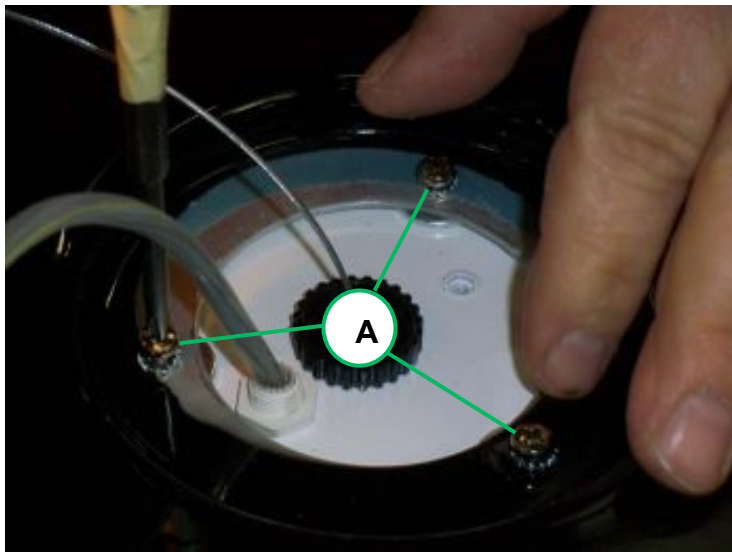
**Assemble now the news pare-part:
Assemble the ballast (H) on the structure (J) by inserting a screw in the apposite hole and fix it to the structure by locking it on the other side with a nut.
Connect the conductors of the ballast to the terminals.**



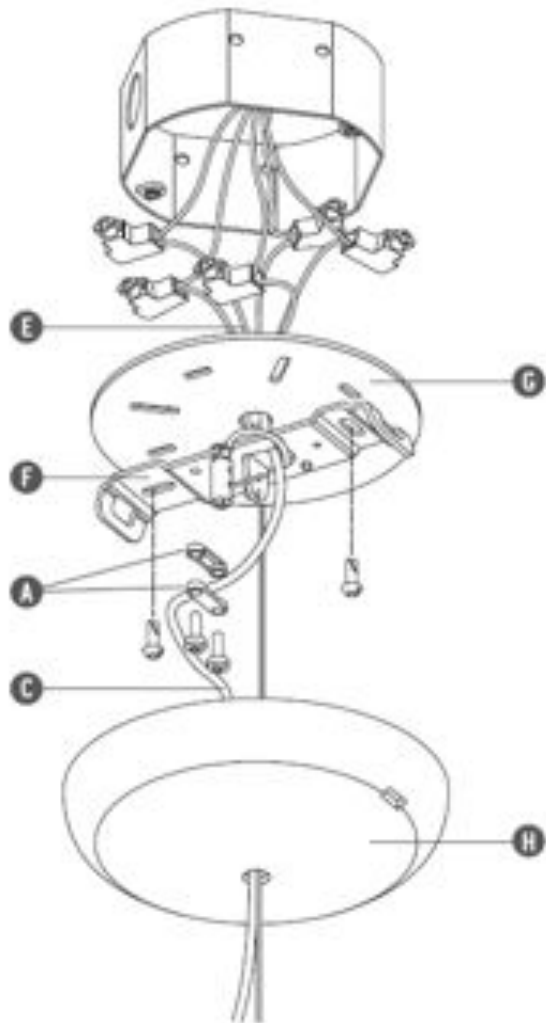


Collocate the spacers (K).

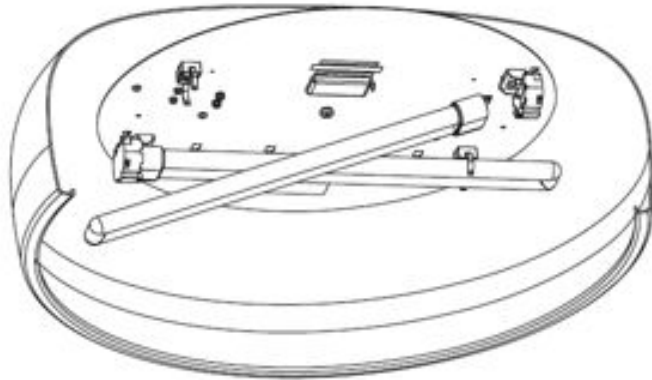
Position the external structure (B) on top of the internal structure (J). Ensure that the three holes present on the lamp structure (J) correspond with the three holes present on the external structure (B).



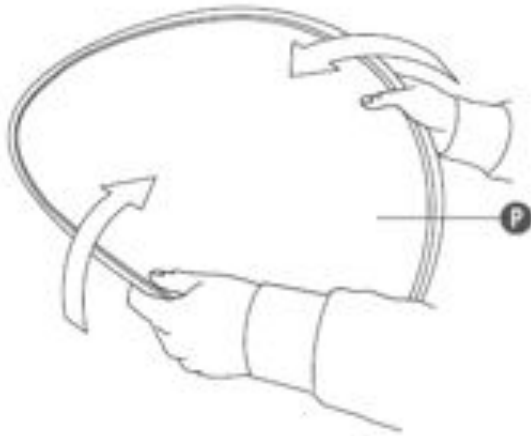
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Secure the power supply wire (C) by replacing the wire holder (A); make all the electrical connection in the junction box (BLACK = PHASE, WHITE = NEUTRAL, GREEN = EARTH, in case of the dimmerable version RED = D1 , BLUE = D2), taking care to pass the power supply wire (C) and the earth wire (E) through the central hole of the fixing plate (F); fit the fixing plate (F) and the wall attachment (G) to the junction box with the screws provided; fit the rose (H).



Insert the lamp bulbs.

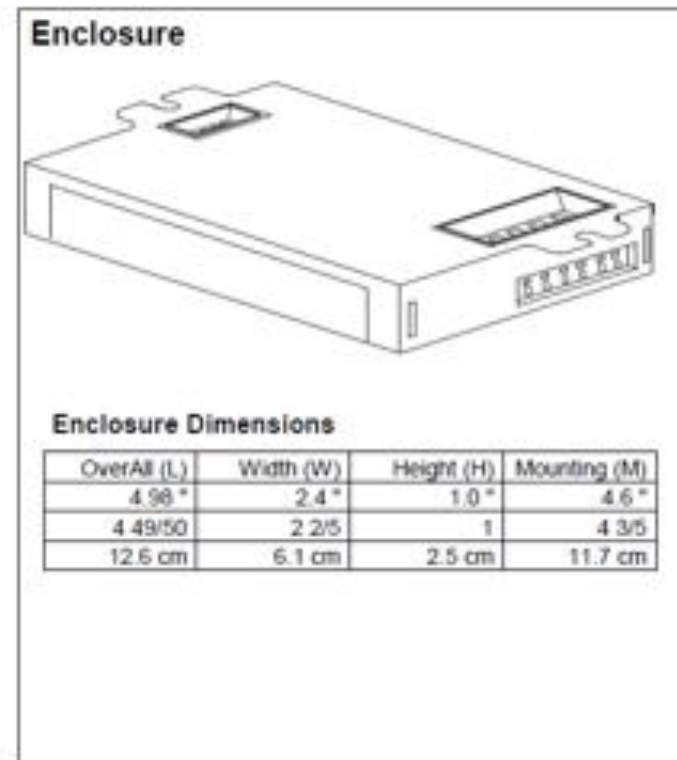
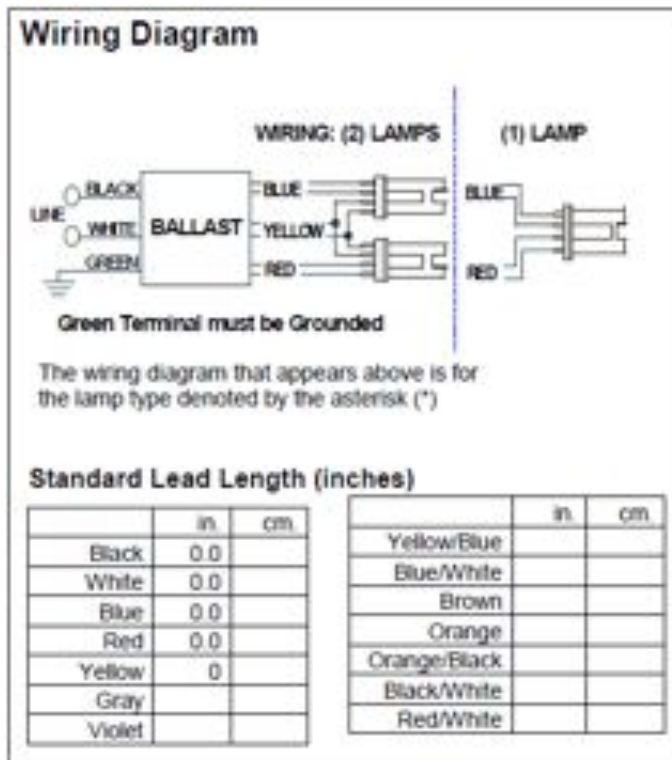


Install the plastic diffuser (P) bending it slightly on the sides to ease it into the body.



ELECTRONIC BALLAST NOT DIMMERABLE SPECIFICATION SHEET

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.
CFM26W/GX24Q	1	26	0/-18	0.24	29	1.10	10	0.98	1.5	3.79
* CFM26W/GX24q	2	26	0/-18	0.45	54	1.00	10	0.99	1.5	1.85



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Notes:***Section I - Physical Characteristics***

- Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- Ballast shall be available in a plastic/metal can or all metal can construction to meet plenum requirements.
- Ballast shall be provided with poke-in wire trap connectors color coded per ANSI C82.11.

Section II - Performance

- Ballast shall be Programmed Start except for ballasts with -QS suffix, which shall be Rapid Start.
- Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- Ballast shall operate from 50/60 Hz input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency).
- 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.
- Ballast shall have a Power Factor greater than 0.98 for primary lamp.
- Ballast shall have a minimum ballast factor of 1.0 for primary lamp application.
- Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp.
- Ballast shall have a Class A sound rating.
- Ballast shall have a minimum starting temperature of -18C (0F) for primary lamp. Ballasts for PL-H lamps shall have a minimum starting temperature of -30C (-20F) for primary lamp.
- Ballast shall provide Lamp EOL Protection Circuit.
- Ballast shall tolerate sustained open circuit and short circuit output conditions.

Section III - Regulatory

- Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type 1 Outdoor; and Canadian Standards Association (CSA) certified where applicable.
- Ballast shall be rated for use in air-handling spaces.
- Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- Ballast shall comply with ANSI C82.11 where applicable.

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- Ballast shall comply with applicable requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.
- Ballast shall comply with NEMA 410 for in-rush current limits.
- Ballast shall meet RoHS Compliance Standards

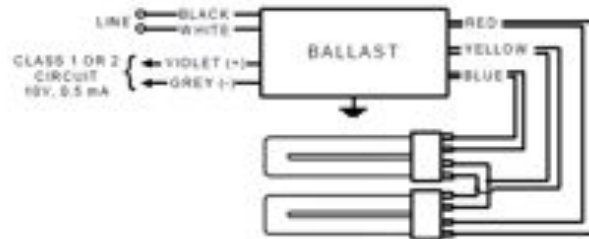
Section IV - Other

- Ballast shall be manufactured in a factory certified to ISO 9001 Quality System Standards.

DIMMERABLE ELECTRONIC BALLAST SPECIFICATION SHEET

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/°C)	Input Current (Amps)	Input Power (Watts) (min/max)	Ballast Factor (min/max)	MAX THD %	Power Factor	Lamp Current Crest Factor	B.E.F.
FT36W/2G11	2	36	50/10	0.64	16/75	0.03/1.00	10	0.99	1.7	1.33

Wiring Diagram



Diag. 59A

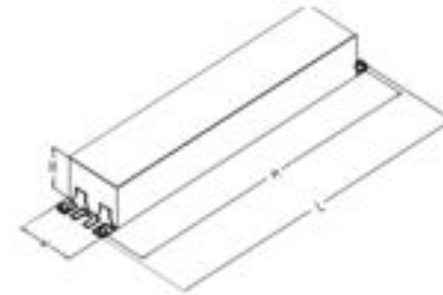
The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.
Black	12	30.5
White	12	30.5
Blue	24	61
Red	24	61
Yellow	24	61
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)
9.50 "	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

Notes:***Section I - Physical Characteristics***

- Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- Ballast shall be available in a plastic/metal can or all metal can construction to meet all plenum requirements.
- Ballast shall be provided with poke-in wire trap connectors or integral leads color coded per ANSI C82.11.

Section II - Performance Requirements

- Ballast shall be Programmed Start.
- VZT-4PSP32-G ballast shall provide Independent Lamp Operation (ILO) allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- Ballast shall be provided with integral protection circuitry to withstand connection of low voltage control leads to mains power supply. In this event, ballast shall default to maximum light output.
- Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- Ballast shall operate from 50/60 Hz input source of 120V or 277V or 347V 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).
- 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.
- Ballast shall have a Power Factor greater than 0.98 at full light output and greater than 0.90 throughout the dimming range for primary lamp.
- Ballast shall have a minimum ballast factor of 1.00 (120V and 277V 1-3 lamp models) or 0.88 (120V and 277V 4 lamp models and 347V 2-3 lamp models) or 1.18 (277V 4 lamp HL models) at maximum light output and 0.03 at minimum light output for primary lamp.
- Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage and 100% power.
- Ballast shall have a Class A sound rating.
- Ballast shall have a minimum starting temperature of 10C (50F) for primary lamp.
- Ballast shall provide Lamp EOL Protection Circuit for all T5, T5/HO and CFL lamps.
- Ballast shall control lamp light output from 100% - 3% relative light output for series operation T8 and CFL lamps, 100% - 10% relative light output for parallel operation T8 and 100% - 1% relative light output for T5/HO lamps.

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- Ballast shall ignite the lamps at any light output setting without first going to another output setting.
 - Ballast shall tolerate sustained open circuit and short circuit output conditions.

Section III - Regulatory Requirements

- Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type 1 Outdoor; and Canadian Standards Association (CSA) certified where applicable.
- Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- Ballast shall comply with ANSI C82.11 where applicable.
- 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).
- Ballast shall comply with NEMA 410 for in-rush current limits.

Section IV - Other

- Ballast shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
- Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.
- Ballast shall be controlled by a Class 1 or Class 2 low voltage 0-10VDC controller.