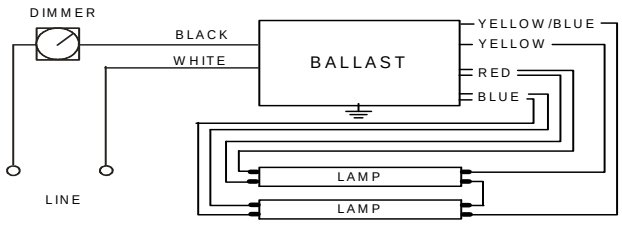
VTR-2S32-SC

Brand Name	**ESSENTIALINE**
Ballast Type	**Electronic Dimming**
Starting Method	**Programmed Start**
Lamp Connection	**Series**
Input Voltage	**277**
Input Frequency	**60 HZ**
Status	**Active**

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (℉/C)	Input Current (Amps)	Input Power (Watts) (min/max)	Ballast Factor (min/max)	MAX THD %	Power Factor	Lamp Current Crest Factor	B.E.F.
F17T8	2	17	50/10	0.12	14/32	0.20/0.91	20	0.99	1.6	2.84
F25T8	2	25	50/10	0.17	17/46	0.20/0.91	20	0.99	1.6	1.98
* F32T8	2	32	50/10	0.22	20/61	0.20/0.91	20	0.99	1.6	1.49
F32T8/U6	2	32	50/10	0.22	20/61	0.20/0.91	20	0.99	1.6	1.49
FB031T8	2	31	50/10	0.22	20/61	0.20/0.91	20	0.99	1.6	1.49
FBO16T8	2	16.2	50/10	0.12	14/32	0.20/0.91	20	0.99	1.6	2.84
FBO24T8	2	24.2	50/10	0.17	17/46	0.20/0.91	20	0.99	1.6	1.98

Wiring Diagram



Diag. 180

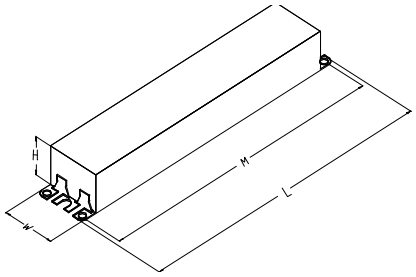
The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.
Black	22	55.9
White	22	55.9
Blue	26	66
Red	26	66
Yellow	46	116.8
Gray		0
Violet		0

	in.	cm.
Yellow/Blue	46	116.8
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

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Data is based upon tests performed by Advance Transformer in a controlled environment and 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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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 available in a plastic/metal can or all metal can construction to meet all plenum requirements.

Section II - Performance Requirements

2.1 Ballast shall be Programmed Start.

2.2 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.

2.3 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.

2.4 Ballast shall operate from 50/60 Hz input source of 120V or 277V 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 to avoid interference with infrared devices and eliminate visible flicker.

2.6 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.

2.7 Ballast shall have a minimum ballast factor of 0.88 at maximum light output and 0.20 at minimum light output for primary lamp.

2.8 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.

2.9 Ballast shall have a Class A sound rating.

2.10 Ballast shall have a minimum starting temperature of 10℃ (50℉) for primary lamp.

2.11 Ballast shall start lamps at any selected light output setting without first going to any other light output setting.

2.12 Ballast input current shall have Total Harmonic Distortion (THD) of less than 20% when operated at nominal line voltage with primary lamp.

2.13 Ballast shall tolerate sustained open circuit or momentary short circuit output conditions.

2.14 Ballast shall properly start lamps in the event lamps are replaced with energized.

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 be RoHS compliant.

3.7 Ballast shall meet the requirements of California Title 24 and NEMA Premium.

3.8 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 three-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 0-10V ballast shall be controlled by a Class 1 or Class 2 low voltage 0-10VDC controller. Powerline ballast shall be controlled by a compatible Mark 10 Powerline two-wire dimmer. When input voltage to dimmer is 120V, control voltage at the ballast (from the dimmer) shall be 120V at full light output and 56V at minimum light output. When input voltage at dimmer is 277V, control voltage to the ballast (from the dimmer) shall be 277V at full light output and 129V at minimum light output.

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