



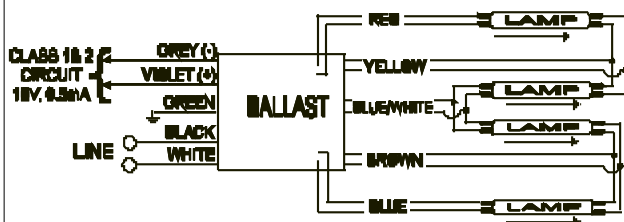
Electrical Specifications

VZT-4S32	
Brand Name	MARK VII 0-10V
Ballast Type	Electronic Dimming
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	277
Input Frequency	50/60HZ
Status	Active

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.
* F17T8	4	17	50/10	0.25	21/63	0.05/0.90	10	0.99	1.6	0.24
F25T8	4	25	50/10	0.35	23/92	0.05/0.88	10	0.99	1.6	0.22
F32T8	4	32	50/10	0.44	25/116	0.05/0.88	10	0.99	1.6	0.20

Wiring Diagram

USE 0-10 VDC CONTROLS

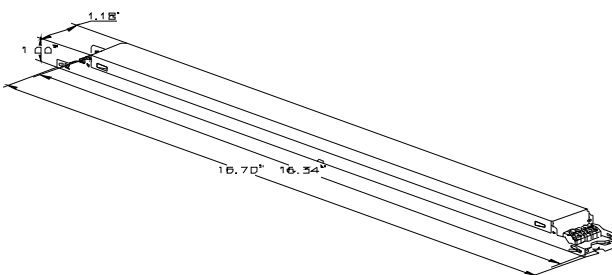


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0	0	Yellow/Blue		0
White	0	0	Blue/White	0	0
Blue	0	0	Brown	0	0
Red	0	0	Orange		0
Yellow	0	0	Orange/Black		0
Gray	00		Black/White		0
Violet	0	0	Red/White		0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
16.70 "	1.18 "	1.00 "	16.34 "
16 7/10	1 9/50	1	16 17/50
42.4 cm	3 cm	2.5 cm	41.5 cm

100-5% Controllable Ballast. 0-10v DC Control

Revised 10/03/2001



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.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086



VZT-4S32	
Brand Name	MARK VII 0-10V
Ballast Type	Electronic Dimming
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	277
Input Frequency	50/60HZ
Status	Active

Electrical Specifications

Notes:

Advance Mark VIIr 0-10V Ballast Specifications

Section I - Physical Characteristics

- 1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts.
- 1.2 Ballast shall be provided with integral leads or color-coded connectors that comply with ANSI standard C82.11 (latest revision).

Section II - Performance Requirements

- 2.1 Ballast shall be Programmed-Start
- 2.2 Ballast shall operate from a nominal line voltage of 120 or 277 volts, 50/60Hz. 120V ballast shall operate from 90V - 145V. 277V ballast shall operate from 200V - 305V.
- 2.3 Ballast shall maintain constant light output, for line voltage variations of $\pm 10\%$ of rated supply voltage.
- 2.4 For T8 and CFL, ballast shall control lamp light output from 100% - 5% relative light output. For T5/HO, ballast shall control lamp light output from 100% - 1% relative light output.
- 2.5 Ballast shall ignite the lamps at any light output setting selected without first starting at maximum light output.
- 2.6 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% at maximum light output for primary lamps. Total Harmonic Current (THC) at minimum light output shall not exceed THC at maximum light output.
- 2.7 Ballast shall have a Power Factor greater than 98% at full light output and greater than 90% throughout the dimming range when used with primary lamp.
- 2.8 Lamp Current Crest Factor shall be 1.6 or less throughout the dimming range in accordance with lamp manufacturer recommendation.
- 2.9 Ballast shall withstand a sustained short to ground or open circuit of any output leads.
- 2.10 Ballast shall be Sound Rated A.
- 2.11 Ballast shall be a high frequency electronic type and operate lamps above 40kHz to avoid interference with infrared control systems, and eliminate visible flicker.
- 2.12 Ballast for compact fluorescent and T5/HO lamps shall have a lamp end-of-life detection and shutdown circuitry that meets proposed ANSI/IEC standard.
- 2.13 Ballast shall comply with ANSI C82.11.
- 2.14 Ballast shall provide transient immunity as specified in ANSI C62.41.
- 2.15 Ballast shall be controlled by a Class 1 or Class 2 low-voltage 0-10V circuit.
- 2.16 Ballast shall be furnished with integral protection circuitry to withstand connection of control leads to mains power supply. In this event, ballast shall default to the maximum light output level.

Section III - Regulatory Requirements

- 3.1 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR Part 18, for Non-Consumer equipment, Class A for EMI (Conducted and Radiated).
- 3.2 Ballast shall comply with all applicable state and federal efficiency standards.
- 3.3 Ballast shall be Underwriters Laboratories (UL 935) listed, Class P, Type 1 Outdoor, and CSA Certified where applicable.

Section IV - Other

- 4.1 Ballast shall not contain Polychlorinated Biphenyl (PCBs).
- 4.2 Manufacturer shall provide written warranty against defects in material or workmanship including replacement, for five years from date of manufacture when ballast case temperature does not exceed 70°C.
- 4.3 Ballast manufacturer shall have a ten-year history of producing electronic ballasts for the North American market.
- 4.4 Ballasts shall be produced in a factory certified to ISO 9002 Quality System Standards.
- 4.5 Ballast shall be controlled by a Mark VIIr 0-10V compatible lighting control.

Revised 10/03/2001



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.

ADVANCE TRANSFORMER CO.
O'HARE INTERNATIONAL CENTER - 10275 WEST HIGGINS ROAD
ROSEMONT, ILLINOIS 60018
TELEPHONE: (847) 390-5000 FAX: (847) 390-5109