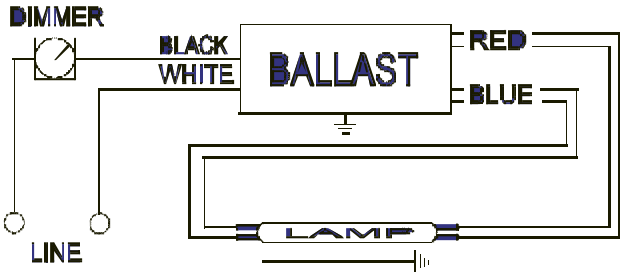
# VEZ-154

| | |
|---|---|
| Brand Name | MARK X Powerline |
| 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 (°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. |
|---|---|---|---|---|---|---|---|---|---|---|
| * F54T5/HO | 1 | 54 | 50/10 | 0.23 | 13/63 | 0.03/1.00 | 10 | 0.98 | 1.7 | 0.24 |
| FC12T5/HO | 1 | 55 | 50/10 | 0.22 | 13/59 | 0.03/0.90 | 10 | 0.98 | 1.7 | 0.24 |
| FT55W/2G11 | 1 | 55 | 50/10 | 0.22 | 13/59 | 0.03/0.90 | 10 | 0.98 | 1.7 | 0.24 |

## Wiring Diagram



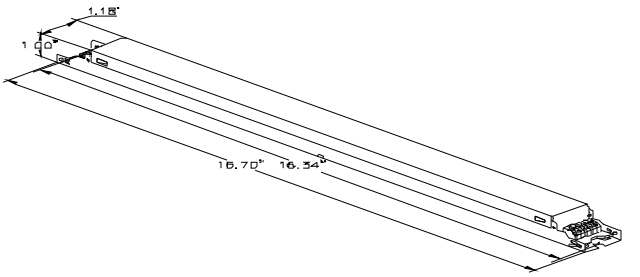

The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

### Standard Lead Length (inches)

| | in. | cm. |
|---|---|---|
| Black | 0 | 0 |
| White | 0 | 0 |
| Blue | 0 | 0 |
| Red | 0 | 0 |
| Yellow | 0 | 0 |
| Gray | 00 | |
| Violet | 0 | 0 |

| | in. | cm. |
|---|---|---|
| Yellow/Blue | 0 | 0 |
| Blue/White | 0 | 0 |
| Brown | 0 | 0 |
| Orange | 0 | 0 |
| Orange/Black | 0 | 0 |
| Black/White | 0 | 0 |
| Red/White | 0 | 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% Architectural Dimming Ballast Phase-cut Dimmer

**Revised 12/05/2001**



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## Electrical Specifications

**Notes:**

Advance Mark Xr Powerline Ballast Specifications

Section I - Physical Characteristics

1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballast.

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, 60Hz and maintain constant light output for line voltage variations of ±10%.

2.3 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.

2.4 Ballast shall ignite the lamps at any light output setting selected without having first starting at maximum light output.

2.5 Ballast input current shall have a 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.

2.6 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.

2.7 Lamp Current Crest Factor shall be 1.6 or less throughout the dimming range in accordance with lamp manufacturer recommendation.

2.8 Ballast shall withstand a sustained short to ground or open circuit of any output leads.

2.9 Ballast shall be sound rated A.

2.10 Ballasts shall be a high frequency electronic type, and operate lamps above 40kHz to avoid interference with infrared control systems, and eliminate visible flicker.

2.11 Ballast for compact fluorescent and T5/HO lamps shall have lamp end-of-life detection and shut down circuitry that meets proposed ANSI/IEC standard.

2.12 Ballast shall comply with ANSI C82.11 standards.

2.13 Ballast shall provide transient immunity as specified in ANSI C62.41 for transient protection.

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 10 year history of producing electronic ballasts for the North American market.

4.4 Ballast shall be produced in a factory certified to ISO 9002 Quality System Standards.

4.5 Ballast shall be controlled by a Mark X r Powerline compatible lighting control.

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