Gain efficiency by driving two lamps at once

Philips Advance e-Vision eHID ballasts for two 39W metal halide lamps

e-Vision eHID ballasts for two 39W ceramic metal halide lamps offer versatility and design freedom and are ideal for a variety of recessed and accent lighting applications. Designed to support the increasingly popular market for multi-lamp 39W metal halide fixtures, these ballasts reduce up-front product and installation costs and represent energy-efficient and cost-effective solutions for a wide variety of retail, commercial, industrial, and hospitality settings.

Featuring metallic enclosures (vs. plastic) and electronic circuitry, e-Vision ballasts are built for optimum performance and reliability — providing cooler and quieter operating environments as well as superior lamp wattage regulation and power control over lamp life. With end-of-life detection and other features including automatic lamp power control and lamp monitoring, e-Vision ballasts are an excellent choice for multi-lamp 39W luminaires.

Intellivolt multiple-voltage technology (operates 120 to 277V 50/60 Hz)

- Enhances accuracy and ease of ordering, reducing stocking/SKU requirements

Compact and lightweight housing (4.7" X 3.6" X 1.5")

- Ballast easily blends into modern fixture designs, supporting aesthetic objectives

Supports sustainable solutions

- Each lamp operated independently; if one lamp reaches end of life, the other continues to operate
- eHID systems reduce material and labor costs by enabling the installation of up to 3½ times more fixtures per circuit versus incandescent alternatives
- eHID systems minimize re-lamping requirements, reducing product and maintenance costs and optimizing total cost of system ownership

85°C maximum case temperature rating and cold-start capability down to -4°F (-20°C)

- Enables long life in high-temperature applications
- Reliable operation in extreme conditions

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e-Vision Electronic Ballasts

Lamp Data		Input		Certifications		Line	Input Power					Max. Distance
Number	Watts	Volts	Catalog Number	UL	CSA	Current (Amps)	ANSI (Watts)	Max. Case Temp.	Wiring Diag.	Fig.	Weight (lb.)	to Lamp (ft.)
39 W Lamp, ANSI Code M130/C130, Minimum Starting Temp. -20° C/-4°F												
2	39	120	IMH-239-A-LF	✓	✓	0.74	89	85°C	5	A	1.7	6
		277	IMH-239-A-BLS	✓	✓	0.31	86	85°C	5	A	1.7	6

Ballast Case Temperature Measurement Location

Case temperature measurement location differs with each ballast model and are designated on the individual ballast labels. Consult ballast labels and ballast specification sheets for measurement locations.

Installation Notes

1. Red and orange leads must be connected to center terminal of lamps (for Edison screw base lamps). Do not connect red, blue, orange, or brown leads to neutral or ground.
2. Use an appropriately rated lamp holder.
3. Maximum ballast-to-lamp distance is 5 ft (2 sm) using typical wiring methods and materials.
4. Power mains must be cycled off and then on to reset ballast after failed lamps are replaced.

Dimensions

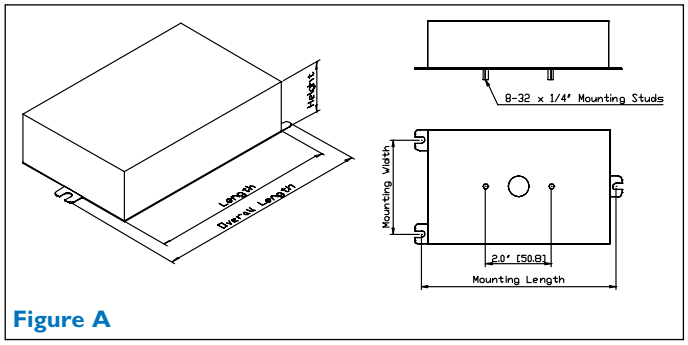
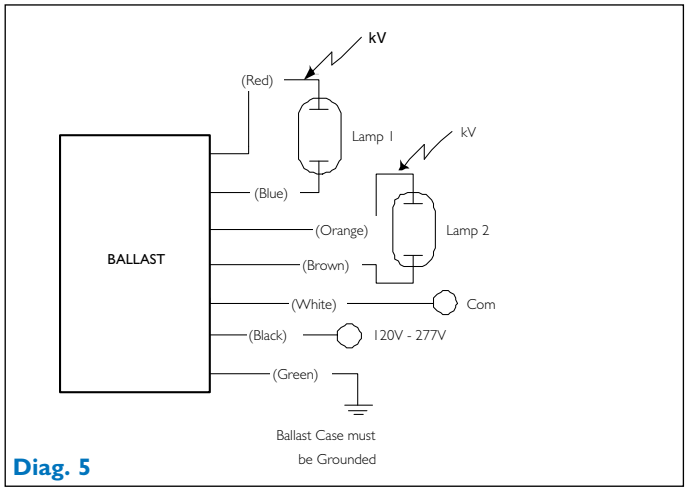


Figure A

Case Figure	Overall Length	Case Length	Case Width	Height	Mounting Length	Mounting Width
E	140mm [5.5"]	120mm [4.7"]	92mm [3.6"]	38mm [1.5"]	132mm [5.2"]	73mm [2.9"]

Wiring Diagrams



Diag. 5

Ballast Specification for e-Vision

Section I - Physical Characteristics

1.0 The electronic ballast shall be furnished with integral, color-coded leads.

Section II - Performance Requirements

2.0 The electronic ballast shall operate from a nominal line voltage range of 120-277V, +/-10%, 50/60 Hz.

2.1 The electronic ballast input current shall have Total Harmonic Distortion (THD) of less than 15%.

2.2 The electronic ballast shall have a Power Factor greater than 90%.

2.3 The electronic ballast shall have a lamp end-of-life detection and shutdown circuit.

2.4 The electronic ballast shall be Sound Rated A.

2.5 The electronic ballast output frequency to the lamps shall be less than 200 Hz to prevent acoustic resonance inside the lamp arc tube and to minimize visible flicker.

2.6 The electronic ballast shall provide a "Lamp Current Crest Factor" of less than 1.5.

2.7 The electronic ballast shall be thermally protected to shut off when operating temperatures reach unacceptable levels.

Section III - Regulatory Requirements

3.0 The electronic ballast shall meet the requirements of the Federal Communications Commission rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.

3.1 The electronic ballast shall be Underwriters Laboratories (UL) Listed and CSA Certified where applicable.

3.2 The ballast shall comply with RoHS

Section IV - Other

4.0 The electronic ballast shall not contain Polychlorinated Biphenyl (PCB's).

4.1 The electronic ballast shall carry a three-year warranty from the date of manufacture for operation at marked maximum case temperature or less.

4.2 The manufacturer shall have a twenty-five year history of producing HID lamp ballasts for the North American market.

4.3 The electronic ballast shall be produced in a factory certified to ISO 9002 Quality System Standards.

RoHS † COMPLIANT

† Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.

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