



# Mini eHID ballast solutions

## Philips Advance e-Vision® Mini 39W electronic ballasts for metal halide lamps

Ideal for a variety of down, track, and accent lighting applications, our low profile Philips Advance e-Vision Mini electronic ballasts for 39W ceramic metal halide lamps offer lighting designers unprecedented design freedom as well as exciting new opportunities for significant cost savings. Operating on a line voltage of 120V 50/60 Hz, the Philips Advance Mini 39W ballast measures up to 30% smaller than comparable products while driving lamps nearly twice the wattage.

Among the smallest in the industry, Philips Advance e-Vision Mini 39W ballasts provide optimal thermal performance, and feature three different lead configurations - same side, opposite side or top lead exit. Moreover, the electronic circuitry of these ballasts provides superior lamp wattage regulation and power control over lamp life, promoting safety, optimizing lamp life and lessening maintenance concerns.

Overall, the Philips Advance e-Vision Mini 39W ballasts represent an attractive, long-lasting, and cost-efficient alternative to incandescent and halogen technology and enable owners to realize significant reductions in operating and maintenance costs.

### Compact and lightweight housing (4.1" X 1.3" X 1.2")

- Promotes enhanced versatility and design flexibility, easily blending into modern luminaire designs while supporting the architect's aesthetic objectives

### Energy efficient eHID technology lasts up to three times longer than halogen and up to five times longer than incandescent alternatives

- Minimizes re-lamping requirements, reducing product and maintenance costs and optimizing total cost of system ownership
- Represents a reliable, long-lasting, high-performing, and cost-effective lighting solution for down, track or accent lighting applications

### Enhanced safety features including automatic lamp power control and lamp monitoring

- Reduction of lamp overpowering/thermal stress by shutting down should the lamp fail to ignite or behave erratically

### Incorporation of lamp end-of-life (EOL) detection with an automatic ballast shutdown feature

- Removes power from lamps when they reach end-of-life, enhancing safety and preventing lamp cycling

**PHILIPS**  
**ADVANCE**

# Ballast Specifications, Enclosure Dimensions, Lead Lengths and Wiring Diagrams

## 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 of 120 volts, +/-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.

## 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.

## Ballast Hot Spot Location

See technical data sheet.

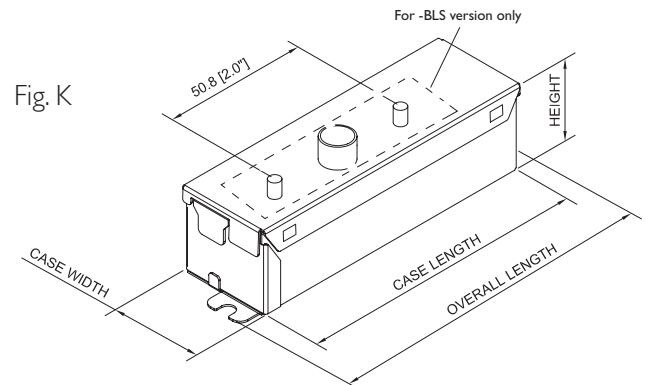
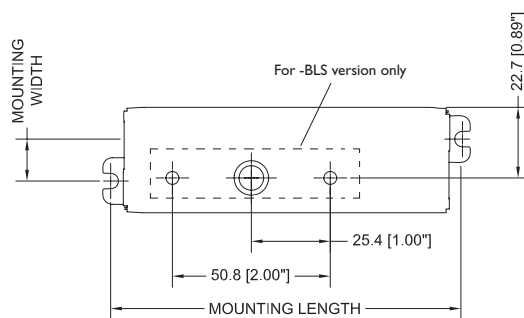
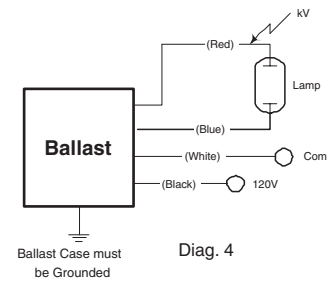
## Installation Notes

- 1. Red lead must be connected to center terminal of lamp (for Edison screw base lamps). Do not connect red or blue lead to neutral or ground.
- 2. Use 2.5kV min. pulse-rated lamp holder.
- 3. Maximum ballast-to-lamp distance is 6 ft (2m). using typical wiring methods and materials.
- 4. Power mains must be cycled off and then on to reset ballast after failed lamps are replaced.

Lamp Data		Input Volts	Catalog Number	Certifications		Line Current (Amps)	Input Power ANSI (Watts)	Max. Case Temp.	Wiring Diag.	Fig.	Weight (lb)	Max. Distance to Lamp (ft)
Number	Watts			UL	CSA							
<b>39W Lamp*, ANSI Code M130/C130/C179, Minimum Starting Temp. -30°C/-20°F</b>												
1	39	120	RMH-39-K-LF (Leads exit opposite ends) RMH-39-K-LFS (Leads exit same end) RMH-39-K-BLS (Top exit leads with mounting studs)	✓	✓	0.40	45	90°C	4	K	0.5	6

Case Figure	Overall Length	Case Length	Case Width	Height	Mounting Width	Mounting Length
K	118mm [4.6"]	104mm [4.1"]	33mm [1.1"]	30mm [1.2"]	13.5mm [0.5"]	113mm [4.4"]

\* Consult lamp manufacturer or Philips Lighting Electronics N.A. for a list of approved lamps.



©2008 Philips Lighting Electronics N.A.  
All rights reserved.

Form No. EH-5050-R02 10/08

Philips Lighting Electronics N.A.  
10275 W. Higgins Road  
Rosemont IL 60018  
Tel: 800-322-2086 Fax: 888-423-1882  
Customer Support/Technical Service: 800-372-3331  
OEM Support: 866-915-5886  
www.philips.com/advance