Mini eHID ballast solutions

Philips Advance Intellivolt e-Vision Mini 20W, 22W, 39W & 50W electronic ballasts for ceramic metal halide lamps

With a low-profile design, our Philips Advance e-Vision Mini Intellivolt (120-277V) 20W, 22W, 39W, and 50W electronic ballasts for ceramic metal halide lamps offer users all of the benefits of electronic HID technology in a compact housing that is perfect for use where track mounted ceramic metal halide luminaires are used. Featuring optimal thermal performance, these mini ceramic metal halide ballasts are among the smallest in the industry. Ideal for a variety of downlighting, track lighting, and accent lighting applications, these ballasts feature various lead exit configurations for enhanced flexibility and ease of use. Their electronic circuitry can provide superior lamp wattage regulation and power control over lamp life. Featuring a desirable 90°C maximum case temperature rating, our mini e-Vision ballasts ensure a long life and optimal performance of the newest MasterColor CDM Elite ceramic metal halide lamps in retail applications.

Operates the latest generation of Philips MasterColor CDM Elite lamps that last up to 25% longer than standard CDM metal halide lamps

- Minimizes re-lamping requirements, while optimizing total cost of system ownership

Enhanced features include automatic lamp power control and lamp monitoring

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

End-of-life (EOL) detection with an automatic ballast shutdown feature

- Removes power from lamps when they reach end-of-life

Compact and lightweight housing

- Enables use of new, Philips CDM-Elite 50W/930 GU6.5 Solution (91lm/W) in a luminaire currently designed around a 39W lamp Smallest form factor available for 50W ceramic metal halide
- Promotes enhanced versatility and design flexibility, easily blending into modern luminaire designs while supporting the architect's aesthetic objectives

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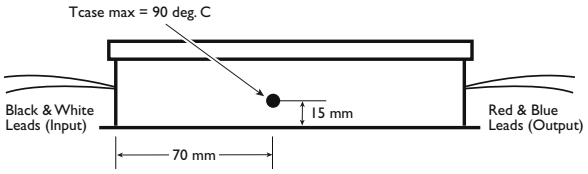
Lamp Data				Certifications								
Number	Watts	Input Volts	Catalog Number	UL	CSA	Line Current (Amps)	Input Power ANSI (Watts)	Max. Case Temp.	Wiring Diag.	Fig.	Weight (lb)	Max. Distance to Lamp (ft.)
20W Lamp, ANSI Code C156 Minimum Starting Temp. -20°C/-4°F												
	20	120 - 277	IMH-G20-K-LF	✔	✔	0.20/0.10	24	90° C	3	K	0.5	4
I	20	120 - 277	IMH-G20-K-LFS	✔	✔	0.20/0.10	24	90° C	3	K	0.5	4
	22	120 - 277	IMH-G20-K-BLS	✔	✔	0.20/0.10	24	90° C	3	K	0.5	4
22W Mini MasterColor Lamp, CDM-Tm 20W/830, ANSI Code C175, Minimum Starting Temp. -20°C/-4°F												
	22	120	RMH-20-K-LF	✔	✔	0.23	26	90° C	4	K	0.5	6
I	22	120	RMH-20-K-LFS	✔	✔	0.23	26	90° C	4	K	0.5	6
	22	120	RMH-20-K-BLS	✔	✔	0.23	26	90° C	4	K	0.5	6
39W Mini MasterColor Lamp, CDM-Tm 35W/930, ANSI Code C179, Minimum Starting Temp. -20°C/-4°F												
	39	120	RMH-39-K-LF	✔	✔	0.40	45	90° C	4	K	0.5	6
I	39	120	RMH-39-K-LFS	✔	✔	0.40	45	90° C	4	K	0.5	6
	39	120	RMH-39-K-BLS	✔	✔	0.40	45	90° C	4	K	0.5	6
39W Lamp, ANSI Code C130 Minimum Starting Temp. -20C/-4F												
	39	120 - 277	IMH-39-K-LF	✔	✔	0.39/0.18	45	90° C	3	K	0.5	4
I	39	120 - 277	IMH-39-K-LFS	✔	✔	0.39/0.18	45	90° C	3	K	0.5	4
	39	120 - 277	IMH-39-K-BLS	✔	✔	0.39/0.18	45	90° C	3	K	0.5	4
50W Lamp, Philips CDM Elite, ANSI C193, Minimum Starting Temp. -20C/-4F												
	50	120 - 277	IMH-50-K-LF	✔	✔	0.48/0.21	57	90° C	3	K	0.5	4
I	50	120 - 277	IMH-50-K-LFS	✔	✔	0.48/0.21	57	90° C	3	K	0.5	4
	50	120 - 277	IMH-50-K-BLS	✔	✔	0.48/0.21	57	90° C	3	K	0.5	4

*Ordering information:
—LF Side exit leads with mounting feet (leads out opposite ends of the ballast)
—LFS Side exit leads with mounting feet (leads out same side of ballast)
—BLS Bottom exit leads with mounting studs

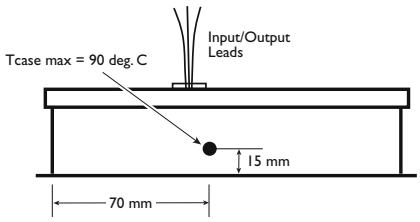
Installation Notes

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 appropriately rated lamp holder.
3. Maximum ballast-to-lamp distance is 4 ft (IMH) or 6 ft (2m) (RMH) using typical wiring methods and materials.
4. Power mains must be cycled off and then on to reset ballast after end-of-life lamps are replaced.

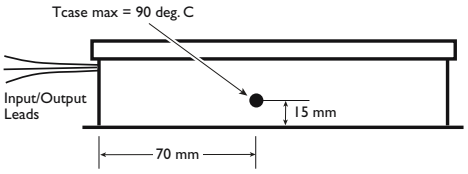
Ballast Case Temperature Measurement Location



For models ending in -LF

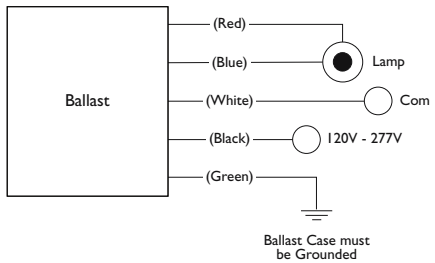


For models ending in -BLS

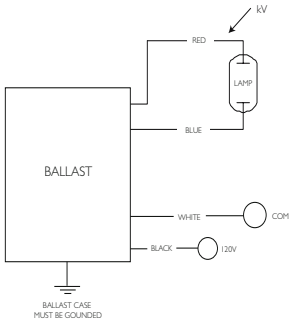


For models ending in -LFS

Diagrams



Diag. 3



Diag. 4

Dimensions

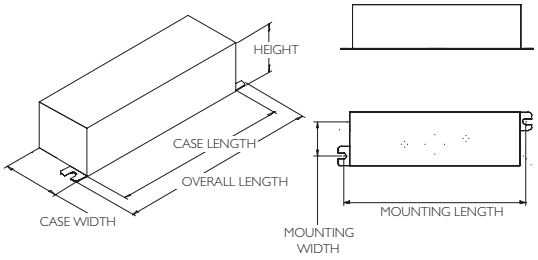


Figure *LF and *LFS models

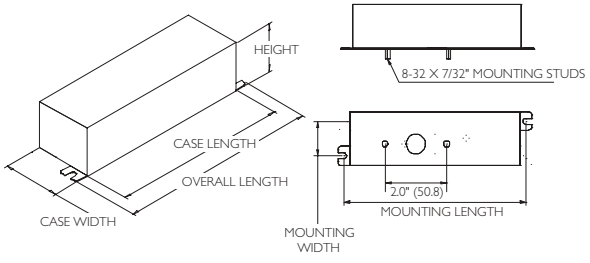


Figure K for *BLS models

Figure K	Overall Length	Case Length	Case Width	Case Height	Mounting Length	Mounting Width
Figure K for all Models	4.4”	4.1”	1.1”	1.2”	4.5”	0.5

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, stranded-wire leads.

Section II - Performance Requirements

2.0 The electronic ballast shall operate from a nominal line voltage of 120V-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 electronic ballast shall comply with ANSI C62.41 Category A for transient protection.

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 limited warranty from the date of manufacture against defects in material or workmanship .This warranty is conditioned upon operation at the marked maximum case temperature or less among other items. (Go to our website for up-to-date warranty information: www.philips.com/advancewarranty).

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.

Form No. EH-5070-D

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