



ELECTRONIC HID

PRODUCT OVERVIEW :

Advance's new e-Vision® 70W and 100W ballasts for use with self heating thermal protectors represent a breakthrough in recessed downlighting. With patent-pending, self heating thermal protector circuitry, these ballasts offer closed-loop, auto lamp shut-off technology that delivers enhanced ballast performance and protection for HID lamps and luminaires. Electronic circuitry offers end-users and fixture manufacturers opportunities for energy savings and cost reduction relative to magnetic HID alternatives, while superior lamp wattage regulation optimizes lamp color quality over life and reduces lamp-to-lamp variations.

Complete with enhanced protection features, such as automatic lamp power control, lamp monitoring, and end-of-lamp-life protection, Advance's e-Vision ballasts for 70-Watt and 100-Watt metal halide lamps offer an optimized solution for recessed downlighting applications within the market's broad range of commercial, retail, and institutional settings.

e-Vision®

Ballasts with Dedicated 120V Output for Self Heating Thermal Protectors for 70-Watt and 100-Watt Metal Halide Lamps



DESIGN HIGHLIGHTS:

- Models incorporate a dedicated 120V output designed for use with self heating thermal protectors
 - Prevents operation of a fixture with a malfunctioning self heating thermal protector heating element, and prohibits ballast activity if the circuit is open or leads are shorted
- Compact and lightweight housing (4.7" X 3.6" X 1.5")
 - Reduced size and weight of e-Vision system relative to magnetic F-Can options, offering cost reduction opportunities in componentry, shipping, and storage
 - Provides enhanced design flexibility
- Superior lamp wattage regulation
 - Optimizes lamp color quality over life
 - Reduces lamp-to-lamp variations
- IntelliVolt® multiple-voltage technology (operates 120 to 277 volts, 50/60 Hz)
 - Enhances accuracy and ease of ordering and reduces stocking/SKU requirements
- Electronic circuitry
 - Drives significant energy savings relative to incandescent and magnetic HID alternatives
 - Enables ballasts to run cooler and operate quieter than many magnetic HID alternatives
 - Further reduces material and labor costs by enabling the installation of up to 3½ times more fixtures per circuit versus incandescent alternatives
- Enhanced features include automatic lamp power control and lamp monitoring
 - Prevents lamp overpowering/thermal stress by shutting down the system should the lamp cycle off at end-of-life or fail to ignite
- End-of-lamp-life (EOL) protection
 - Removes power from the lamp at its end-of-life, helping to prevent lamp overheating
- 90°C maximum case temperature rating
 - Provides long life in high-temperature applications

APPLICATIONS:

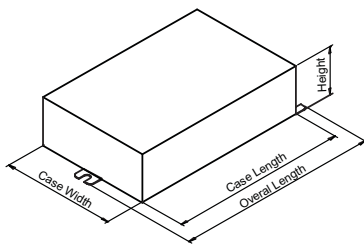
■ Retail

■ Commercial

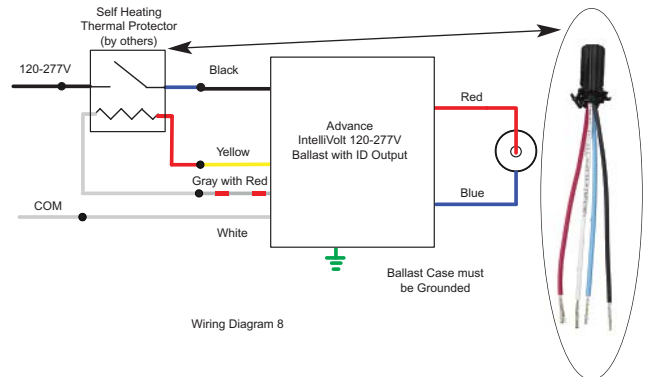
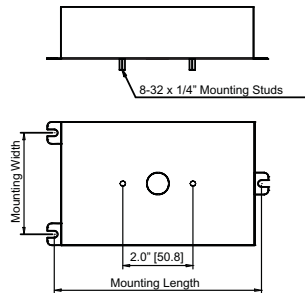
■ Industrial

DIMENSIONS AND DATA												
Lamp Data		Input Volts	Catalog Number*	Line Current (Amps)	Input Power (W)	Ballast Factor	Max THD (%)	Min Power Factor	Wiring Dia	Figure	Weight (lb)	Max Distance to Lamp (ft)
Number	Watts											
70W Watt Lamp, ANSI Code M98, M143 or M139 Minimum Starting Temp -30°C/-20°F												
1	70	120	IMH-70-A-xxx-ID	0.72	86	1.0	18%	0.9	8	A	1.5	5
		277		0.31	84							
100W Watt Lamp, ANSI Code M90, M140 Minimum Starting Temp -30°C/-20°F												
1	100	120	IMH100A-xxx-ID	0.96	115	1.0	15	0.9	8	A	1.5	5
		277		0.42	113							

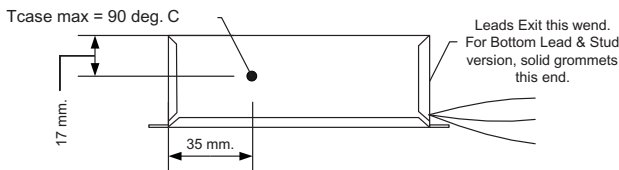
Figure A



CASE LENGTH = 4.72" [120mm]
 MOUNTING LENGTH = 5.20" [132mm]
 MOUNTING WIDTH = 2.87" [73mm]
 OVERALL LENGTH = 5.51" [140mm]
 CASE WIDTH = 3.62" [92mm]
 HEIGHT = 1.50" [38mm]



Ballast will not operate if thermal protector heating element is absent, shorted or failed open.



Case Temperature Measurement Location

INSTALLATION & APPLICATION NOTES:

1. Use with any Thermal Protector having equivalent resistive value 5k to 25k ohm (4 wire versions only)
2. Open Circuit voltage across ID output approx 270VDC
3. Maximum allowable case temperature is 90°C. See figure above for measurement location
4. Ignition pulse is 4 kV max
5. All leads are 12 inches long
6. Ballast output will shutdown after 20 minutes if lamp fails to ignite
7. Power must be cycled off – then on, after replacing lamp

*Ordering Information

Order Suffix	Description
-BLS	Ballast with bottom exit leads and mounting studs

Data is based on tests performed by Advance 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.



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