





HALOGEN AIRCRAFT/ TRANSPORTATION LAMPS

Focused Innovation.

HPX Technology... Improved Halogen Lamp Performance and Profitability for Major Airframe and Fixture Manufacturers

Welch Allyn designs and manufactures Halogen HPX™ aircraft lamps consistently delivering increased illumination performance over conventional halogen lamps. We design HPX lamps with the airline industry for the airline industry. This is why major airframe and fixture manufacturers select HPX aircraft lamps as the most widely used in their original equipment (PMA documentation available). For example, we supply HPX aircraft lamps to Boeing®, an aerospace company known worldwide for its stringent specifications and high-quality products. So whether they are specified for a new system or replacement, you can be confident that HPX lamps are the most effective and profitable solutions to your lighting needs. Halogen HPX lamps are produced in the United States.



Aircraft Lights That Last

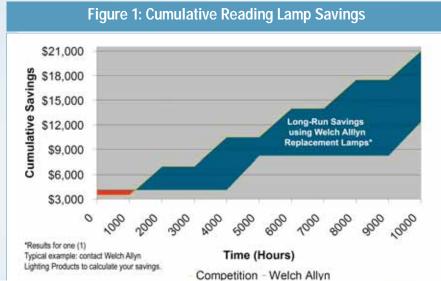
Welch Allyn aircraft lamps have rated life times up to 10,000 hours. What's more, light output maintenance levels of Welch Allyn commercial aircraft lamps are among the highest available. This means that our lamps deliver consistent brightness levels over the life of the lamp so passengers will not complain about eye or neck strain from reading under a dim lamp.

Easy Replacement

The optical-quality glass construction of our lamps enables aircraft maintenance personnel to change lamps without having to wear gloves. Compare that with quartz lamps, where contact with oils from skin can cause

damage or cracking in the lamp.

These combined features and benefits clearly illustrate why it's not just a halogen lamp... it's HPX.









OSHINO LAMPS FRANCE

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Figure 2: Commercial Aircraft/Transportation Reading Lamp Specifications									
Part Number	Aircraft Type	Replaces ¹	Amps	Wattage	Approx MSCP ²	Average Life (hrs)	Opaque Tip	Base Type	FAA PMA
6 VOLTS									
998502-17	A300, A310, A330, A340	8GH003912-06	2.00	12	11.4	6,700	Yes	А	
998502-18	A319, A320, A321, A330, A340, ATR42/72	8GH005678-06	1.67	10	11.8	6,000	No	А	Υ
12 VOLTS									
998502-4	777 All Models	2059X	0.833	10	8.6	10,000	Yes	А	Υ
998502-8	747-400	2059	0.833	10	10.7	10,000	No	А	Υ
28 VOLTS									
998502-1			0.550	15.4	15.2	3,000	No	А	
998502-2	SAAB 340, Canadair RJ, A318, A319, A320, A321, EMB170, EMB195, EMB175	8GH005448-28	0.410	11.5	12.3	3,200	No	А	Υ
998502-6			0.429	12	8.5	6,200	Yes	А	
998502-7	MD-90, A319, A320, A321, A330, A340, EMB170, EMB175, EMB195, Canadair RJ	8GH004554-28	0.410	11.5	10.0	3,200	Yes	А	Υ
998502-10	737, 757, 767 New Generation All Models	9204	0.357	10	6.6	10,000	Yes	В	Υ
998502-12	717	0201789	0.357	10	6.6	10,000	Yes	А	
998502-13			0.357	10	8.0	10,000	No	А	
998502-15			0.429	12	10.4	6,200	No	А	
998502-20	Upgrade ³	1308, 2232	0.357	10	8.0	10,000	No	С	Υ
998502-21	Upgrade ³	1308, 2232	0.429	12	10.4	6,500	No	С	
998502-22	Upgrade ³	1308, 2232	0.550	15.4	15.2	5,500	No	С	
998502-24	MD90, Canadair RJ	8GH007429-28	0.410	11.5	8.9	8,000	Yes	А	Υ

¹ FAA-PMA documentation available.

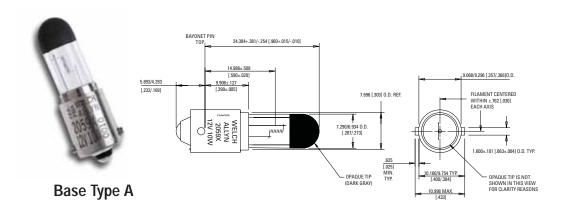
Note: Listed part numbers are for bulk original equipment manufacturers. Welch Allyn Lighting Products applies the following convention when ordering replacement lamps: [Part Number]-1.

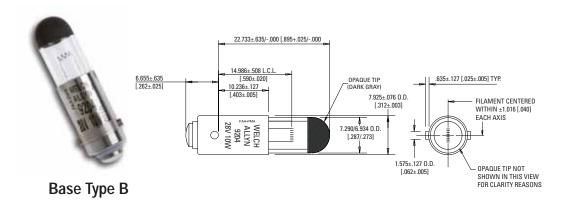
For example, replacement lamp orders for part number 998502-7 would be entered as 998502-7-1.

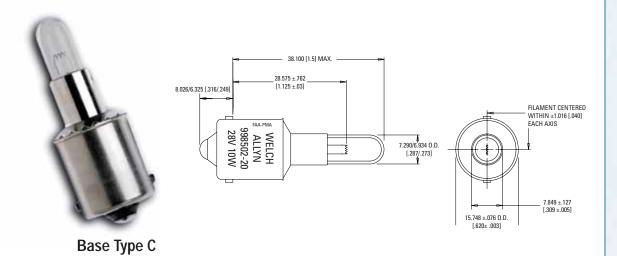
² Mean Spherical Candle Power

³ This lamp allows upgrading from old-style incandescent lamps (#1308, #2232, etc.) to long-life Halogen HPX[™] style lighting. Designed for use in L1011, B727, B737-200, B737-300, B757-200, B767-200, B767-300, B767-300ER, MD-11, MD-81, MD-82, MD-83, MD-87 and MD-88 Aircraft.

Figure 3: Lamp Base Configurations (All measurements are in mm [inches])







The drawings and dimensions above are for reference only.

Contact Welch Allyn Lighting Products for detailed drawings of specific lamps.



For over 80 years, Welch Allyn has been a pioneer in the development of precision lighting systems used in medical diagnostic instruments. Since 1989, the Lighting Products Division of Welch Allyn has supplied the commercial and military aircraft and transportation industry with high quality lamps for new or replacement systems. Additionally, Welch Allyn has delivered lamps to the rail and mass transit industries. Throughout this time, the hallmark of every Welch Allyn miniature lighting system has been quality. Using several proprietary manufacturing processes, our design engineers ensure that each Welch Allyn lamp will operate up to its quoted specifications. In 1996, Welch Allyn's Lighting Products Division was certified for ISO 9001. Today, we have the most complete offering of halogen lamps for aircraft and transportation reading lamps, with up to 10,000 hours of life to greatly improve lamp reliability and lower the equipment owner's cost.



Welch Allyn—Your Source For Precision Arc & Halogen Lamps







