



900 Series Cartridge Type LED Lamps

Overview

The 900 Series LED cartridge lamp mates with 910 Series lampholders. Constructed with an aluminum case, 900 Series LED lamps are noted for high resistance to shock and vibration, long life, and low power requirements. These may be ordered with multiple lens styles and lens colors.

Approvals

UL Recognized.

Specifications

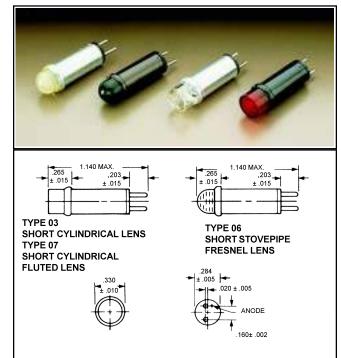
Sleeve: Aluminum. Black anodized finish standard; clear anodized finish optional.

Termination: .040" diameter stainless steel pins mounted in a nylon header. The anode is identified on the header as the + pin connection.

LED DC Voltage options: 1.8 to 28 volts.

Lens: Heat resistant, high strength polycarbonate.

Lens Marking: Cylindrical lenses may be stamped. Contact factory.



ORDERING INFORMATION:										
EXAMPLE: 900 1 60 J 06 1 RN Red LED Built-in 330 OHM Resistor Short Stovepipe Lens Black Anodized Red Non- Finish Diffusing Len										
Series Number	Termination	Lamp Code		Resistor		Lens Type	Sleeve Finish	Lens Color		
900		60 (Red LED) 66 (Green LED) 68 (Yellow LED)			Volts 1.8 3.6 5 6 10 12 14 28 3.6 5 6 10 14 28 r, use onl	 03 Short Cylindrical 06² Short Stovepipe Fresnel 07² Short Cylindrical Fluted 	1 Black Anodized- standard 2 Clear (Silver) Anodized	Nondiffusing (Clear) CN Colorless (60,66,68) ³ WN White (60,66,68) ³ AN Amber (68) ³ GN Green (66) ³ RN Red (60) ³ YN Yellow (68) ³		





900 Series Cartridge Type Incandescent Lamps

Overview

The 900 Series incandescent cartridge lamp mates with 910 Series lampholders. Constructed with an aluminum case, 900 Series incandescent lamps are noted for high brightness. These may be ordered with multiple lens styles and lens colors.

Approvals

UL Recognized.

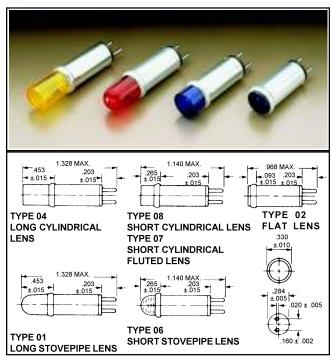
Specifications

Sleeve: Aluminum. Clear anodized finish standard; black anodized finish optional.

Termination: .040" diameter stainless steel pins mounted in a nylon header.

Incandescent AC or DC Voltage options: 1.35 to 28 volts. **Lens:** Heat resistant, high strength polycarbonate. Translucent lens colors are normally used for incandescent cartridge lamps as they give an evenly diffused light over the lens surface. When Type 08 (short cylindrical) lens is used in the 910 Series holder with a screw-on lens cap, specify "colorless nondiffusing" for 08 lens color.

Lens Marking: Cylindrical lenses may be stamped. Contact factory.



ORDERING INFORMATION:		EXAMPLE: <u>900</u> 10				<u>06 X</u>	<u>6 X 08 2 CN</u>				
			2.7V Lamp				Short Cylindrical Clear Anodized Nondif			Colorless Nondiffusing Lens	
Series				Lamp			Resistor	Lens Type		Sleeve Finish	Lens Color
Number		Code	Volts	MA	MSCP	Life (Hrs)					
900	1 Stainless steel pins standard A Tin-plated stainless steel pins for printed circuit board mounting	05 ² 06 ² 07 ² 17 10 16 11 01 12 02 08 ² 09 ² 18 13 03 20 ² 21 ² 14 15 19 04	1.35 2.7 3.0 5.0 6.0 6.0 6.3 6.3 10.0 10.0 12.0 14.0 14.0 14.0 18.0 28.0 28.0 28.0	60 60 15 60 200 40 200 200 200 200 200 14 40 40 80 80 80 80 17 20 40 40 40	.01 .04 .003 .03 .04 .13 .60 .03 .55 .40 .006 .08 .10 .50 .03 .08 .15 .34 .15 .30	3,000 6,000 10,000 30,000 10,000 20,000 50,000 50,000 50,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 10,000 7,000	X (NONE)	01 ³ 02 ⁴ 04 06 ⁵ 07 ⁵ 08 ⁴	Long Stovepipe Flat Long Cylindrical Short Stovepipe Fresnel Short Cylindrical Fluted Short Cylindrical	1 Black Anodized 2 Clear (Silver) Anodized standard	Nondiffusing (Clear) AN Amber BN Blue CN Colorless GN Green RN Red WN White (Cloudy) YN Yellow Translucent AT Amber BT Blue GT Green RT Red WT White YT Yellow

¹ MSCP - Mean Spherical Candle Power.

² Because of relatively low light output, these lamps should be used with non-diffusing (clear) lens colors only. Lamp ratings are compiled from a leading lamp manufacturer's catalog.

³ Best suited for wide angle viewing.

⁴ For High Temperature application, contact factory.

⁵ Nondiffusing lens colors only. Types 06 and 07 are recommended for best light distribution.





900/901 Series Cartridge Type Neon Lamps

Overview

The 900 Series neon cartridge lamp mates with 910 Series lampholders. Constructed with an aluminum case, the 900/901 series neon lamps are ideally suited for 125 volt applications. The 901 series cartridge lamps are 0.125" longer than the 900 series to accept blue or green neon lamps and mate with the 911 series lampholders. Please consult the table below.

Approvals

UL Recognized.

Specifications

Sleeve: Aluminum. Clear anodized finish standard. Black anodized finish optional.

Termination: .040" dia. stainless steel pins mounted in nylon header.

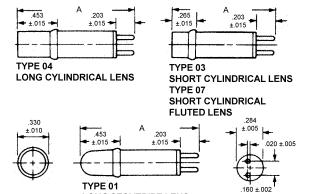
Voltage options: Std. Brightness, 105 to 125 AC or DC volts. High Brightness, 110 to 125 AC volts. Green Neon, 115 to 125 AC or DC volts. Blue Neon, 105 to 125 AC volts or 105 to 150 DC volts.

Lens: Heat resistant, high strength polycarbonate. When type 03 (short cylindrical) lens is used in a 910 or 911 Series holder with a screw-on lens cap, specify "colorless nondiffusing" for 03 lens color. **Lens Marking:** Cylindrical lenses may be stamped. Contact factory.

	Dimension A in Inches (Max.)		
Lens Type	900 Series	901 Series	
01	1.328	1.453	
03	1.140	1.265	
04	1.328	1.453	
07	1.140	1.265	

ORDERING INFORMATION:







EXAMPLE: 900 1 50 X 01 2 AN \top \top \top \top \top \top \top									
		Standard Brightness A9A Lamp		No Built-in Resistor	Long Stovepipe Lens	Clear Anodized Finish	Amber Non- diffusing Lens		
Series Number	Termination	Lamp Code	Resistor Code Internal Resistor Value		Lens Type	Sleeve Finish	Lens Color		
900	1	Note: Reference Lamp Selection Guide.	X⁵ C	No Built-In Resistor 56K OHM, 3K Life Hrs.	01 ⁶ Long Stovepipe	1	Nondiffusing (Clear)		
	Stainless steel pins	52 ¹ Standard Brightness A1B	ЕT	100K OHM, 15K Life Hrs. 150K OHM, 25K Life Hrs.	03 Short Cylindrical	Black Anodized	AN Amber CN Colorless		
901	standard A	53 ¹ High Brightness A1C	X⁵ A S C	No Built-In Resistor 22K OHM, 5K Life Hrs. 33K OHM, 25K Life Hrs. 56K OHM, 25K Life Hrs.	04 Long Cylindrical 07 ⁷ Short Cylindrical Fluted	2 Clear (Silver) Anodized Standard	RN Red WN White YN Yellow BN [®] Blue GN [®] Green		
	Tin-plated stainless steel pins 50 ² Standard Brightness A9A (NE2E)		X ⁵	No Built-In Resistor	¹ Use with lens colors AN, CN, RN, WN, or YN. ² For use on 900 series only with type 01 and 04 lense ³ For use on 901 series only with lens colors GN, CN, or V				
	for printed circuit board mounting	51 ² High Brightness C2A (NE2H)	X⁵	No Built-In Resistor	 ⁴ For use on 901 series with lens colors BN, CN, or WN. ⁵ External resistor required. ⁶ Best suited for wide angle viewing. 				
	mounting	56 ³ Green Neon	В	30K OHM, 10K Life Hrs.	 ⁷ Recommended for best light distribution. ⁸ For 901 series only when used with blue or green lamp 				
		57 ⁴ Blue Neon	В	30K OHM, 10K Life Hrs.	respectively.				