



Neon Lamps

Indicator Lights for Extension Cords

SPECIFICATIONS

Neon Glow Lamp Specifications:

Key: COLOR/Life hours/Current/mcd

Red: Standard Brightness, 30-50K life, .3 mA, 1.4 mcd

Red High Brightness: 20K-25K life, 1 mA, 5 mcd

Green Glow: 15-20K life, .6-1.2 mA, 3 mcd

Blue Glow: 10-15K life, .45-1 mA, 3 mcd

Orange Glow: 30-50K life, 1.6 mA

Typical light output color for clear glass neon lamps is in the orange-red range of 600 to 700 nanometers. Other emitted colors such as green, yellow and blue are available through secondary emission by coating the inside surface of the envelope with phosphor.

Custom envelopes, lead thickness and length, resistor size and location, mcd/output, color and packaging are available.

For DC operation, the life of a high brightness lamp is about 50% of a neon lamp operating at the same RMS AC voltage. The life of a standard brightness lamp at DC is about 60% of the life value at AC.

Features:

- Rugged: not affected by vibration, shock, or frequent on/off cycles.
- Available in colors, Red, Bright Red, Orange, Yellow, Blue and Green.
- AC (110VAC, 220 VAC - no additional parts needed) and DC operation.
- Available with and with out built in resistor.
- Small volume, Bulk and Tap and reel packaging available.

DESCRIPTION

Neon lamps are typically used in applications that require a wide range of temperatures, brightness and voltages.

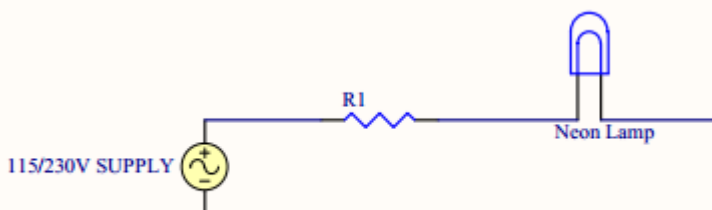
Neon lamps are very rugged and are not affected by vibration, mechanical shock or frequent ON/OFF operation.

Neon lamps may be operated over a wide temperature range from -40°C to +150°C and are not damaged by voltage transients or high voltage static discharges.

Life expectancy of a neon lamp increases considerably as operating current is decreased. With light output exponentially proportional to current, large increases in rated life can be obtained with small reductions in current, and only a small reduction in brightness.

For neon lamp applications requiring life ratings of more than 50,000 hours, the use of a higher value resistor will reduce lamp current and achieve longer life.

SIMPLE NEON LAMP INDICATOR CIRCUIT



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