

STROBE-BRIK™

About Strobe Life

Our strobe lamps are used in a wide variety of ways. The life of our strobe lamp is five million blinks when they are used with our controller, up to full intensity, at rates up to one flash per second, in ambient temperatures up to 120° F (50° C). You may achieve many more than five million flashes without noticeable degradation. Flash tube life is rated at 10 million flashes by the tube's manufacturer.

Assuming a 5 million flash-life in these conditions, for example:

<u>If your flash rate averages</u>	<u>And you operate</u>	<u>Your lamp should last</u>
2 flashes every minute	4 hours a day	40 years
1 flash every 10 seconds	5 days a week, 8 hours a day	4.7 years
1 flash every second	7 days a week, 24 hours a day	57 days

High temperatures will reduce the life of the xenon flash tube inside the lamp. High temperatures are the result of the inability to dissipate heat due to:

- High ambient temperature (hot mounting location),
- Restricted air movement near the lamp (confined mounting location, or objects closer than 0.375" to lamp housing),
- High energy delivered to the lamp with each flash (full intensity), and
- Insufficient cooling time between flashes (rapid flashes without rest)

The xenon flash tube inside the lamp is rated at five million flashes at four watts (four joules per second) because when passing energy at this rate it is able to cool enough to remain at a temperature that will not harm the tube. The controller delivers about 3.7 joules to each strobe lamp with each flash. Rates faster than one flash per second will reduce the lamp's life accordingly.

Although there are calculations that assist with estimating the life of a strobe lamp in a particular application, ultimately any statement of lamp life can only be approximate.

Strobe Specifications

Type	Quick termination finger strobe with xenon flash tube
Dimensions	(O.D. x L) 0.82" x 4.55" (with quick-connector)
Weight (without cable)	~1.20 oz.
Ambient temperature range	-20°F to 120°F (-30°C to +50°C)

Contact:

Steve Birket, PE MBA
(407) 290-2000
steve.birket@birket.com
www.birket.com

