

Uniblitz[®] ES6B

6mm Bi-Stable Laser Shutter

Overview

The Uniblitz ES6B is a 6mm bi-stable laser shutter with a very lowprofile construction and **guaranteed lifetime of 25,000,000 actuations.** Its lack of an external protruding actuator makes it very slim and flexible for system integration. Precision exposure control and laser switching are applications that benefit greatly from the precise, highly repeatable characteristics of the ES shutter series.

Bi-stable shutter devices, like the ES6B, require no power to hold the blades in either the open or closed state.

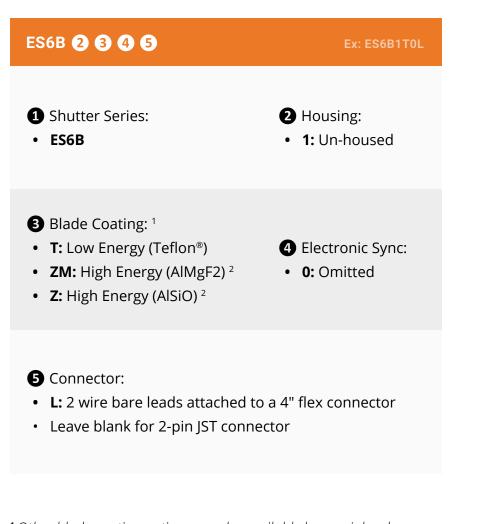
Need Support? Please visit our website or email us at info@uniblitz.com.

Tel: <u>585-385-5930</u> | Toll-Free: <u>800-828-6972</u> | Fax: 585-385-6004 | 803 Linden Ave. Rochester, NY 14625 Updated 4/18 | Datasheet Version 5.1 | ©2018 Vincent Associates

Key Features

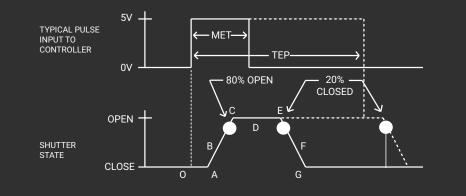
- 6mm aperture
- Guaranteed lifetime of 25,000,000 actuations
- Bi-stable operation
- RoHS Compliant
- Transfer time on opening:
 - 1.9 milliseconds
- Total opening time:
 - 3.7 milliseconds
- Configured for the <u>VED24</u>
 <u>Shutter Driver</u>

Product Options



¹ Other blade coating options may be available by special order.
² Input side only; Teflon[®] coating is on opposite side to protect shutter blade surface. Light source must be input to the reflective side only.

Shutter Timing



Time (msec.) ES6B (w/ Uniblitz driver and Teflon[®] coated blades) O - A Delay time on opening after current applied 1.8 1.9 A - C Transfer time on opening Total opening time 3.7 0 - C C - E 9.4 Min. dwell time with min. input pulse B - F Min. equivalent exp. time 11.0 Delay time on closing after current applied 1.8 D - E E - G 1.9 Transfer time on closing A - G 13.2 Total window time MET Min. exposure time 11.0

TEP Typical exposure pulse >11.0

Technical Specifications

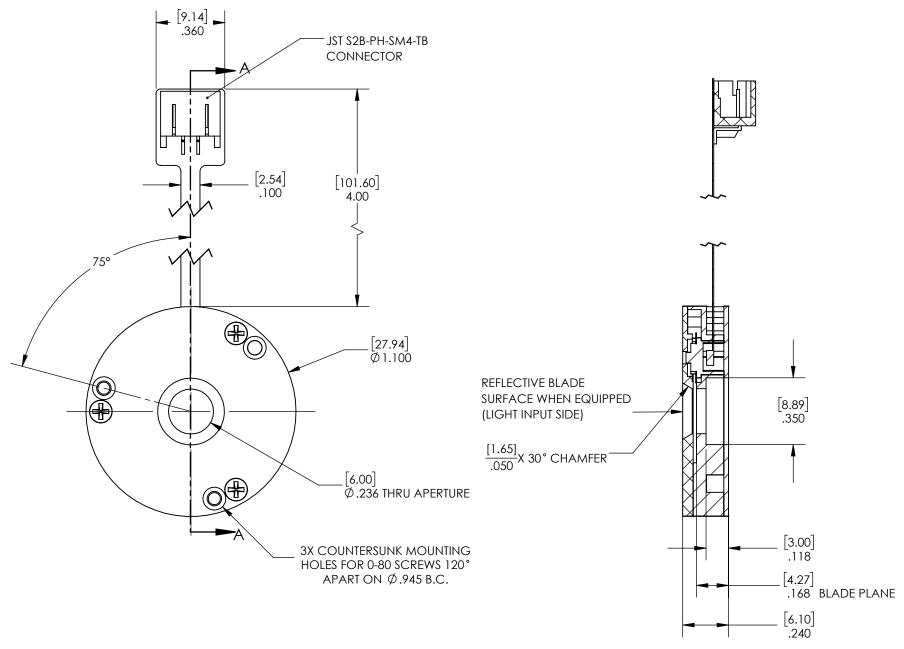
Coil Resistance	Voltage to Open	Hold Voltage	
8 Ω	+10.7 VDC ¹	N/A	

¹ Peak voltage as provided by the <u>VED24 Driver</u>

² (Continuous/Burst) Continuous frequency rating specified at shutter's minimum exposure pulse. Burst frequency rating specified for four (4) seconds maximum with one (1) minute minimum between bursts.

Series	Weight	Operating Temp.	Max. Opening Bounce	Max. Closing Bounce	Max. Freq. of Operation ²	Number of Shutter Blades
ES6B	0.32 oz (9.20 g)	-10 - +65 °C	5%	5%	15 Hz / 45 Hz	1

Technical Drawings - ES6B



SECTION A-A