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Uniblitz® TS6B

6mm Bi-Stable Laser Shutter

Overview

The Uniblitz TS6B is a 6mm bi-stable laser shutter that withholds an extremely low-profile construction. The device's 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, repeatable characteristics of the TS shutter series.

Bi-stable shutter devices, like the TS6B, require no power to hold the blades in either the open or closed state.

Key Features

- 6mm aperture
- Bi-stable operation
- Extremely low-profile form-factor
- **RoHS Compliant**
- Transfer time on opening:

  1.7 milliseconds
- Total opening time:

  3.1 milliseconds
- Configured for the **VED24 Shutter Driver**

Product Options

TS6B ❷ ❸ ❹ ❺ Ex: TS6B1T0L

❶ Shutter Series:
- **TS6B**

❷ Housing:
- **1:** Un-housed

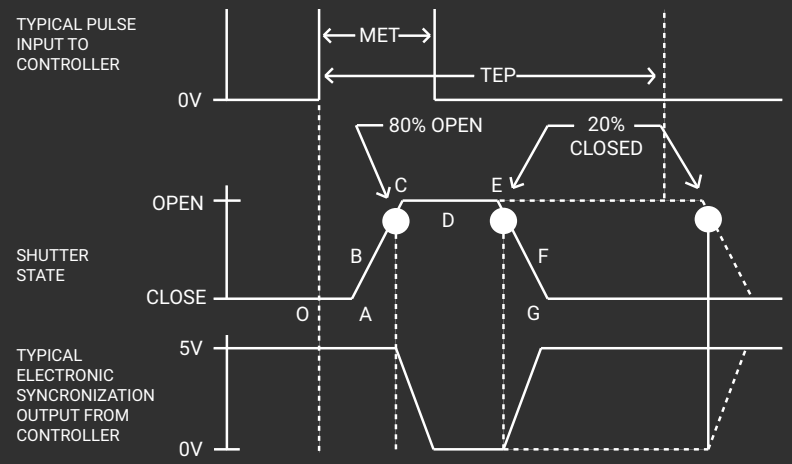
❸ Blade Coating: [1]
- **T:** Low Energy (Teflon®)
- **ZM:** High Energy (AlMgF2) [2]
- **Z:** High Energy (AlSiO) [2]

❹ Electronic Sync:
- **0:** Omitted

❺ Connector:
- **L:** 2 wire bare leads attached to a 4" flex connector
- Leave blank for 2-pin JST connector

[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



TS6B (w/ Uniblitz driver and Teflon® coated blades)		Time (msec.)
O - A	Delay time on opening after current applied	1.4
A - C	Transfer time on opening	1.7
O - C	Total opening time	3.1
C - E	Min. dwell time with min. input pulse	9.3
B - F	Min. equivalent exp. time	11.0
D - E	Delay time on closing after current applied	1.4
E - G	Transfer time on closing	1.7
A - G	Total window time	12.7
MET	Min. exposure time	11.0
TEP	Typical exposure pulse	>11.0

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Technical Specifications

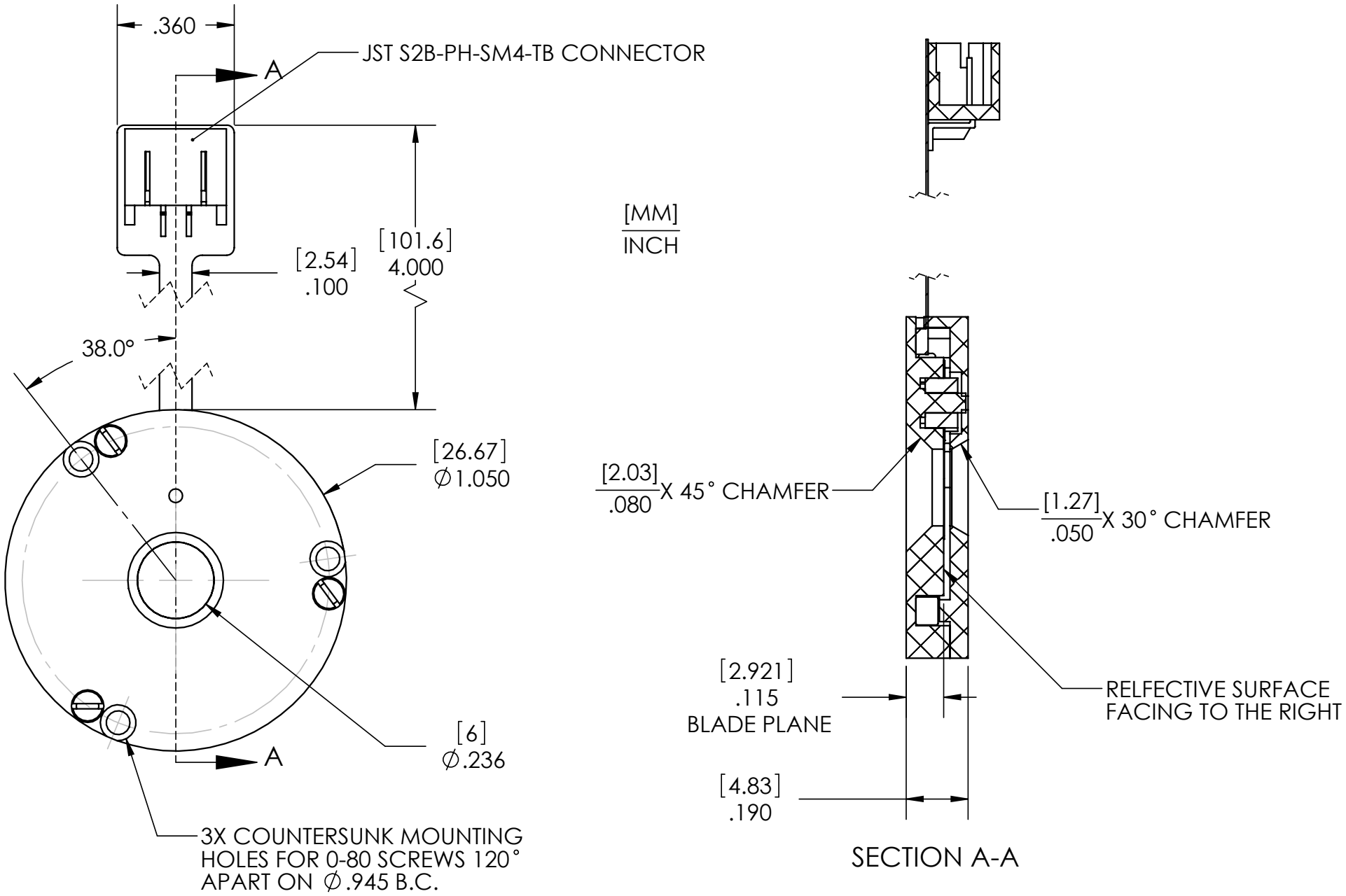
Coil Resistance	Voltage to Open	Hold Voltage
8 Ω	+10.7 VDC [1]	N/A

[1] *Peak voltage as provided by the **VED24 Driver***

[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
TS6B	0.17 oz (4.70 g)	-10 - +65 °C	5%	5%	15 Hz / 45 Hz	1

Technical Drawings - TS6B



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