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25mm Bi-Stable Optical Shutter



#### Overview

The Uniblitz DSS25B is a 25mm-aperture bi-stable optical shutter that has eliminated the external protruding actuator and contains no other interfering components. This makes the DSS25B an extremely low-profile device that is capable of fitting into very tight spaces. Additionally, the device's flat mounting surfaces make for its easy integration into virtually any system.

Bi-stable shutter devices, like the DSS25B, require no power to hold the blades in either the open or closed state.

#### **Key Features**

- 25mm aperture
- Bi-stable operation
- Only two unique moving parts
- Slim, low-profile form-factor
- **RoHS Compliant**
- Transfer time on opening:

12.6 milliseconds

Total opening time:

25.8 milliseconds

Configured for the **VED24 Shutter Driver** 

### **Product Options**

DSS25B 2 3 4 5

Ex: DSS25B

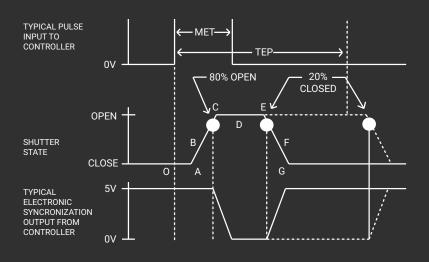
Shutter Series:
DSS25B

1: Un-housed

- 3 Blade Coating: 1
- **T:** Low Energy (Teflon®)
- **ZM:** High Energy (AlMgF2) <sup>2</sup>
- 4 Electronic Sync:
- 0: Omitted

- **5** Connector: <sup>3</sup>
- L: 2 wire bare leads attached to a 4" flex connector
- Leave blank for 2-pin JST connector with 4" flex harness
- <sup>1</sup>Other blade coating options may be available by special order.

### **Shutter Timing**



DSS25B (w/ ED12DSS and Teflon® coated blades) Time (msec.)						
O - A	Delay time on opening after current applied	13.2				
A - C	Transfer time on opening	12.6				
O - C	Total opening time	25.8				
C - E	Min. dwell time with min. input pulse	23.2				
B - F	Min. equivalent exp. time	36.6				
D - E	Delay time on closing after current applied	14.0				
E - G	Transfer time on closing	14.0				
A - G	Total window time	50.8				
MET	Min. exposure time	35.0				
TEP	Typical exposure pulse	>35.0				

<sup>&</sup>lt;sup>2</sup> Input side only; Teflon® coating is on opposite side to protect shutter blade surface. Light source must be input to the reflective side only.

<sup>&</sup>lt;sup>3</sup> Custom terminations are available. Please contact a technical representative for more information.

## **Technical Specifications**

Coil Resistance	Voltage to Open	Hold Voltage	
7.5 Ω	+12 VDC <sup>1</sup>	N/A	

Series	Weight	Operating Temp.	Max. Opening Bounce	Max. Closing Bounce	Max. Freq. of Operation <sup>2</sup>	Number of Shutter Blades
DSS25B	0.73 oz (20.70 g)	-10 - 65 °C	15%	5%	5 Hz / 10 Hz	5

<sup>&</sup>lt;sup>1</sup>Peak voltage as provided by the **VED24 Driver** 

<sup>&</sup>lt;sup>2</sup>(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.

# Technical Drawings - DSS25B

