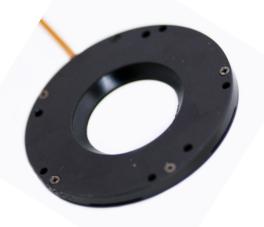


DSS25 25mm Bi-Stable Shutter Specifications

Features

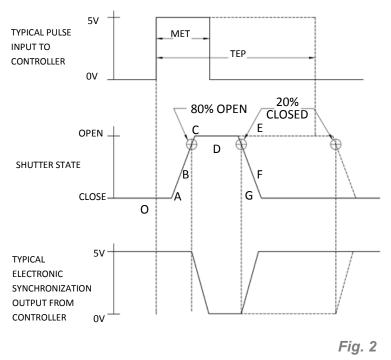
- The DSS series is the latest technology available from UNIBLITZ®. This device has eliminated the external protruding actuator and contains no other interfering components.
- Requires no power to hold the shutter in either the open or closed state.
- Flat mounting surfaces on both sides of the device.
- Easily integrated into various applications.
- Can act as a replacement for existing flag shutters.
- Coated blades available for infrared applications dealing with lasers and high intensity light sources.
- The DSS25 is designed for use with the ED12DSS driver.
- All of the DSS Shutters are RoHS compliant in their standard configuration. No special option is required.



Shutter Systems 1.800.828.6972

Fig. 1 DSS25 25mm Bi-Stable Shutter





	DSS25	Time (msec.) ¹
0-A:	Delay time on opening after current is 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 is 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

¹ Timing data recorded with ED12DSS driver with drive pulse equal to MET.

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Electrical

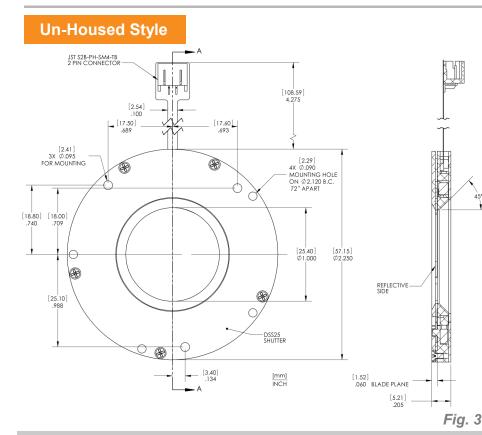
COIL RESISTANCE	PULSE VOLTAGE TO OPEN
7.5 OHMS	+12 VDC

An electronic sync. for the DSS25 will be available in the future. Please contact us for additional information.

Mechanical

SERIES	WEIGHT	OPERATING TEMP. (DEGREES)	MAX. OPENING BOUNCE	MAX. CLOS- ING BOUNCE	MAX. FREQUENCY OF OPER- ATION ¹	NUMBER OF SHUTTER BLADES
DSS25	20.7g	-10 to +65°C	15%	5%	5 Hz / 10 Hz	5

² (CONT/BURST) CONTinuous frequency rating specified at shutter's minimum exposure pulse. BURST frequency rating specified for (4) four seconds maximum with (1) one minute minimum between bursts. Frequency measurements are taken in free air, 25°C ambient, actuator coil equipped with heat sink. For additional information on maximum sustained frequencies obtainable, please contact one of our technical representatives.



- The DSS25 shutter device weighs 20.7g and is only .200 inches thick.
- There are no other interfering components that will impede mounting the unit to any flat surface.
- It is easily mounted into an optical system via the three .090 inch diameter mounting holes (72° apart) and three .095 inch diameter alternate mounting holes at the locations shown in *Fig. 3*.
- Presently the unit will terminate to a 2-pin JST connector (S2B-PH-SM4-TB) via a 4 inch flex interconnect.
- For operation with the VDM1000 driver, use a 5M203D Cable Adapter.

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Optical Blade Finish

SHUTTER SERIES	ULTRAVIOLET .34µm (microns)			IBLE (microns)	INFRARED .75-10.6µm (microns)	
	(Z) AISiO	(ZM) AIMgF ₂	(Z) AISiO	(ZM) AIMgF ₂	(Z) AISiO	(ZM) AIMgF ₂
DSS25	N/A	5 W/mm ²	10 W/mm ²	5 W/mm ²	5 W/mm ²	5 W/mm ²
For reflectanc	e graph, plea	se visit <u>http://w</u>	/ww.uniblitz.c	om/optical-sh	utters-compa	rison-chart.aspx

Blade Samples are available upon request.

Product Options

1	00000	Example Part Number DSS25B1T0L
Aperture Size\Type: DSS25B: 25mm Housing:	 Blade Finish:² T: Teflon[®] Coated S.S. Blades ZM: AlMgF2 Coated BeCu Blades¹ Z: AlSiO Coated BeCu Blades¹ 	 <u>Electronic Sync:</u> Omit Sync.³
1: Un-housed <u>Connector:</u> L: 2 Wire bare leads attached	to 4" flex connector ⁴ connector with 4" flex harness	

¹ Input side only, Teflon® coating is on opposite side. Intended to protect the shutter blade surface, light source must be input to the reflective side only.

² Other blade options are available through special order.

³ An electronic sync is currently unavailable for this device.

⁴ Custom terminations are available, please contact a technical representative.

For information regarding applicable intellectual property, please visit www.uniblitz.com/company-info/patents.

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