

CS25 SHUTTER PRELIMINARY SPECIFICATIONS



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FEATURES

- Small form factor, a 25 mm aperture fits into a 2.37 inch diameter housing!
- Five-bladed design in combination with a new miniature UNIBLITZ actuator, and a state of the art patented damping system provide increased reliability over other designs of this type.
- Reflective blades available.
- Can be driven with our existing VMM/VCM drive units. Special driver not required.
- Available housed or un-housed for OEM applications.
- #100 Mounting Ring available for universal mounting applications.
- Electronic Synchronization System option available.
- Design, accuracy, and reliability that you have come to know as with all other UNIBLITZ products!

The CS25 is the fourth release in the new UNIBLITZ® CS series. The small form factor allows a 25 mm aperture to be installed into applications not presently accessible with existing UNIBLITZ VS series shutters. As with the CS45, CS65 and CS90, the CS25 has been designed to provide accurate, repeatable exposures for a wide variety of applications. The small form factor allows a 25 mm aperture to be installed into a 2.37-inch diameter housing (a 40% reduction in overall size from the VS25 series). To increase the unit's flexibility, the shutter can be supplied in an un-housed version for OEM applications or in situations inaccessible to most shutters due to spatial limitations.

The UNIBLITZ® CS25 incorporates a new miniaturized actuator system that can be driven with existing VMM drive units. As an option, the shutter may also be equipped with an electronic synchronization system, to increase the unit's flexibility. It is available in a housed or un-housed OEM version that is electronically programmed to fire specific exposures at precise time intervals. The new shutter's multi-bladed design, combined with its new miniaturized UNIBLITZ actuator, provides increased reliability over other designs of this type.

When gating high intensity light sources, the CS25 can be equipped with reflective blades. This option protects the shutter blades from the light source's damaging effects by reflecting the energy away from the blade surface. Three standard reflective blade options are available. "S" (reflective stainless steel), "Z" (AlSiO) and "ZM" (AlMgF₂).

To further enhance the flexibility of the CS25; an optional #100 mounting ring is available to allow the shutter to be easily mounted in many non-specific applications. Additional information regarding the #100 mounting ring and additional mounts available can be found in the specific data sheet entitled "MICROSCOPE & VIDEO MOUNTING SYSTEMS" or on-line under "products", "Mounting Systems".

ELECTRICAL

Coil Res.:	12 ohms
Pulse Voltage to Open	+70VDC
Hold Volt.:	+7VDC/+5VDC*

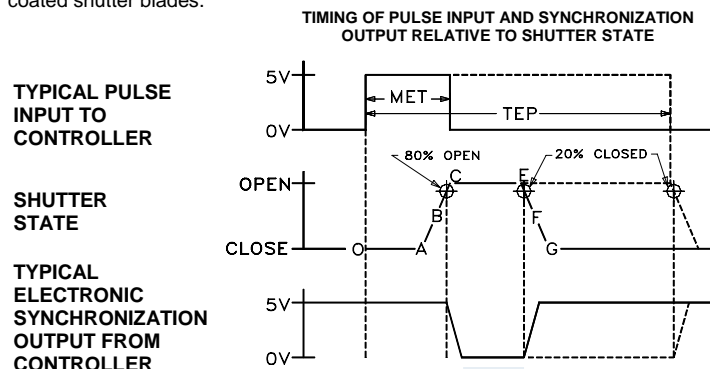
* VMM dual hold level driver system included in UNIBLITZ VMM/VCM shutter controller.

MECHANICAL

Operating Temp.	0°C to +80°C
Max. Opening Bounce	15%
Max. Closing Bounce	5%
Number of Blades	5

TIMING

Typical timing values (msec.) using UNIBLITZ drive equipment and measured with UNIBLITZ shutters equipped with standard TEFLON® coated shutter blades.



(Timing in msec.)

O-A Delay time on opening after current is applied	3.0
A-C Transfer time on opening	6.0
O-C Total opening time	9.0
B-F Min. equivalent exp. time	16.5
C-E Min. dwell time with min. input pulse	6.0
E-G Transfer time on closing	13.0
A-G Total window time	25.0
MET: Min. exposure time	10.0
TEP: Typical exposure pulse	>10.0

The question regarding enhancement of shutter speed with the application of user supplied lubricants has been repeatedly asked. It is our experience that lubricating the shutter blades will actually slow the shutter down and eventually render the shutter inoperable. UNDER NO CIRCUMSTANCES SHOULD ANY TYPE OF LUBRICANT BE APPLIED TO THE SHUTTER BLADE AREA.

HOW TO ORDER (AVAILABILITY APRIL 2004)

CS25S	3	T	0	-100
APERTURE SIZE	HOUSING	BLADE FINISH	SOLID STATE SYNCHRONIZATION	MOUNTING OPTIONS
CS25S - 25mm	1 - UNCASED 3 - #3 CASE	T - TEFLON COATED S - POLISHED STAINLESS ZM - AlMgF ₂ COATED BeCu BLADES Z - AISIO COATED BeCu BLADES	0 - OMIT SYNC. 1 - SOLID STATE SYNC.	- 17 F-C VIDEO ADAPTER - 21 ZEISS AXIOVERT TYPE - 22 OLD STYLE NIKON TYPE - 23 OLYMPUS TYPE - 24 OLYMPUS TYPE - 26 LEICA TYPE - 27 NIKON TYPE - 28 OLYMPUS IX TYPE - 29 NIKON TYPE - 30 LEICA TRANSMITTED TYPE - 31 NIKON/CONFOCAL TYPE - 100 MOUNTING RING - 105 C-MOUNT ADAPTER (MALE) - 106 C-MOUNT ADAPTER (FEMALE) - 110 T-MOUNT ADAPTER

