ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Vincent / UniBlitz VS35S2ZM0R1-27* at our website: *Click HERE*

VS35 35mm Uni-Stable Shutter Specifications

Features

- The ***UNIBLITZ***® VS35 has been designed to give accurate, repeatable exposures for a wide variety of applications.
- The VS shutters have been successfully field tested in microscopy, video imaging, PMT protection, and photographic applications worldwide.
- 35mm diameter aperture
- Laser energy ratings up to 10W/mm2 with "Z" or "ZM" shutter blade coating options.
- Exposure repetition rates from DC - 5Hz.
- Electronic synchronization system available.
- Housed and un-housed versions available.
- Can be equipped with the "R3" High Temperature Option.
- Available in a normally-open configuration.



Fig. 1 *VS35 35mm Uni-stable Shutter*

Timing

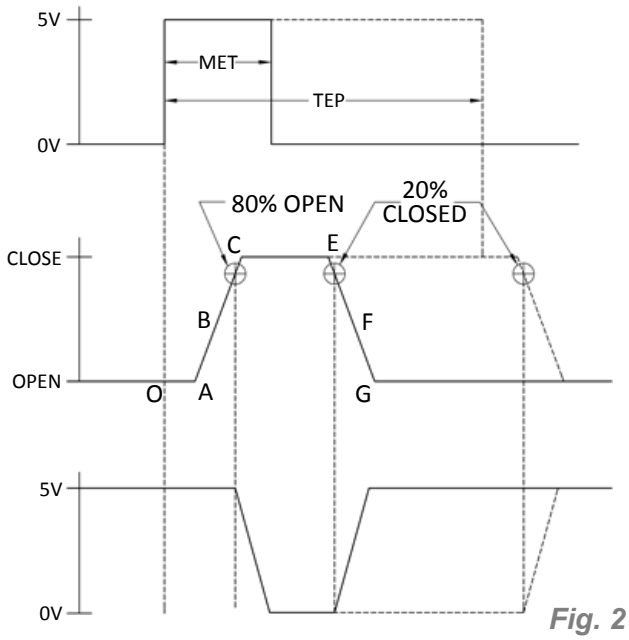


Fig. 2

VS35		Time (msec.)[1]
O-A:	Delay time on opening after current is applied	5.0
A-C:	Transfer time on opening	13.0
O-C:	Total opening time	18.0
C-E:	Min. dwell time with min. input pulse	5.0
B-F:	Min. equivalent exp. time	20.0
E-G:	Transfer time on closing	12.0
A-G:	Total window time	30.0
MET:	Min. exposure time	20.0
TEP:	Typical exposure pulse	>23.0

[1]*Typical timing values (msec.) using UNIBLITZ® drive equipment and measured with UNIBLITZ® shutters equipped with standard black Teflon® coated shutter blades.*

Due to our ongoing product development program, Vincent Associates reserves the right to discontinue or change specifications or designs at any time, without incurring any obligations. Teflon is a registered trademark of E.I. DuPont. Drawings shown for illustrative purposes only. Updated 04/13. *Specification sheet Ver. 4.1*

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Electrical

COIL RESISTANCE	PULSE VOLTAGE TO OPEN	HOLD VOLTAGE [1] (NOMINAL)
12 OHMS	+70 VDC	+7VDC/+5VDC[2]

[1] Voltage level required across actuator coil when being held in the open position.

[2] Dual hold voltage level driver system included in UNIBLITZ® VMM/VCM shutter controller.

The Electronic Synchronization System provides a feedback signal (through the driver utilized) after the shutter transfers to the open state. The system incorporates an infrared emitting diode, an infrared sensitive detecting transistor, and an interrupting vane. The vane is attached to the shutter so as to block the light path between the emitter and detector in the closed position. When the shutter transfers to the 80% open position, the vane is removed from the infrared light path, allowing the emitter to switch the detector to the active state. **No connection to the designated synchronization pins when no electronic sync. is selected.**

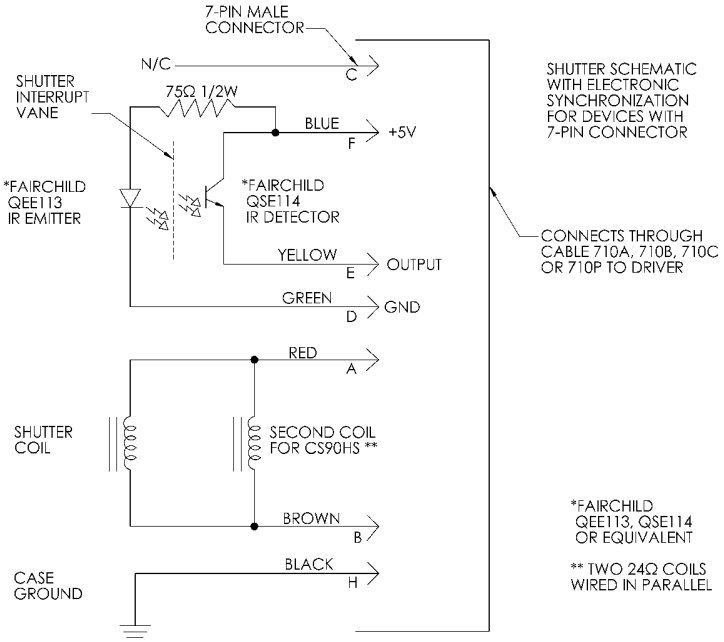


Fig. 3

Mechanical

SERIES	WEIGHT UNCASED	WEIGHT CASED	OPERATING TEMP. (DEGREES)	MAX. OPENING BOUNCE	MAX. CLOSING BOUNCE	MAX. FREQUENCY OF OPERATION [2]	NUMBER OF SHUTTER BLADES
VS35	2.33 oz (.07 kg)	14.35 oz (.41 kg)	0-80 ° C	15%	5%	5 Hz / 20 Hz	2

[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.

Due to our ongoing product development program, Vincent Associates reserves the right to discontinue or change specifications or designs at any time, without incurring any obligations. Teflon is a registered trademark of E.I. DuPont. Drawings shown for illustrative purposes only. Updated 04/13. *Specification sheet Ver. 4.1*

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Housing Options

Un-housed Style

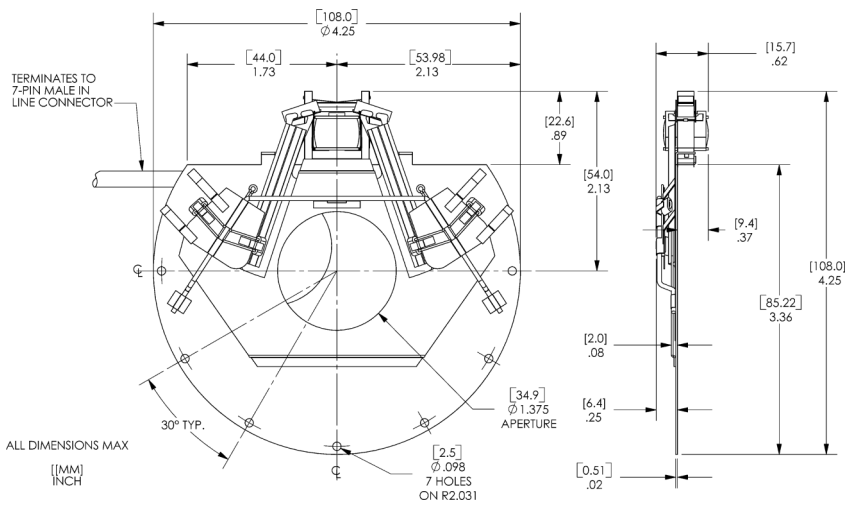


Fig. 4

Housed Style

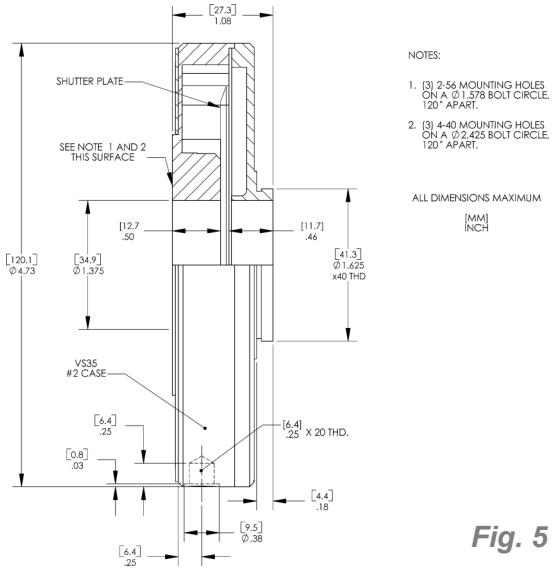


Fig. 5

Drawings of the device in its normally open configuration are available under the 'Downloads' tab on our website.

Housing/Connector Layout

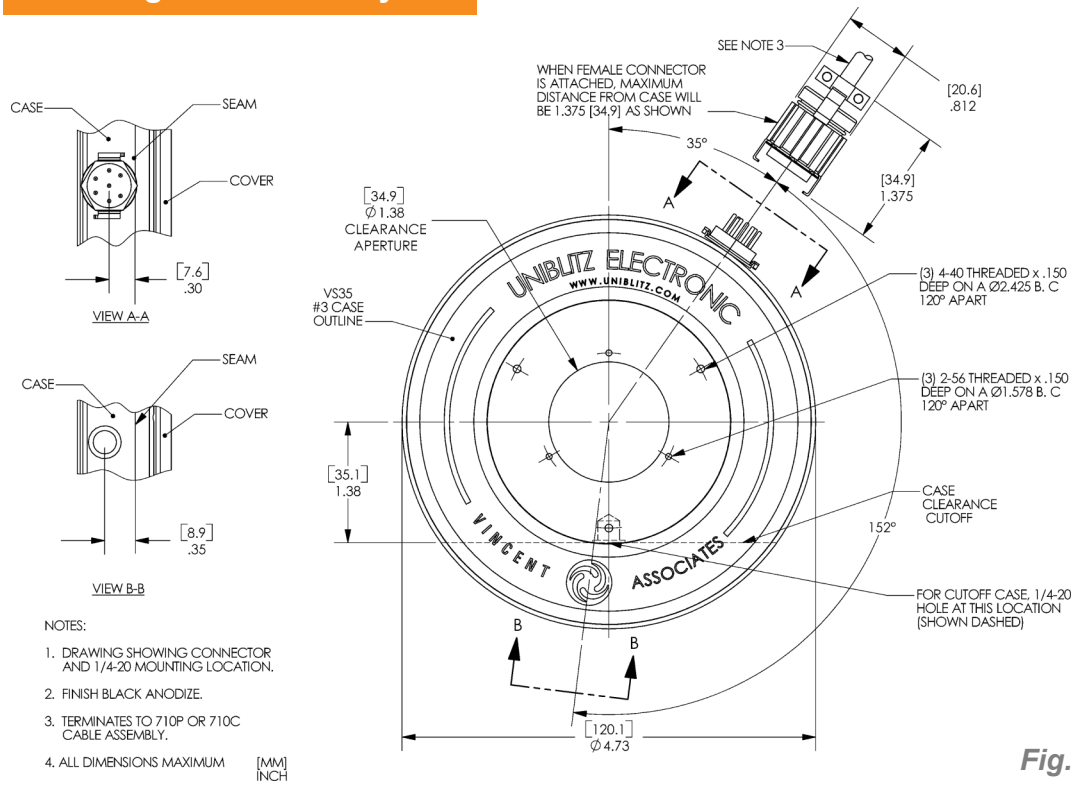


Fig. 6

Fig. 6 illustrates the 7-pin connector and 1/4-20 threaded hole layout for the VS35 series #3 case style.

Due to our ongoing product development program, Vincent Associates reserves the right to discontinue or change specifications or designs at any time, without incurring any obligations. Teflon is a registered trademark of E.I. DuPont. Drawings shown for illustrative purposes only. Updated 04/13. *Specification sheet Ver. 4.1*

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Optical Blade Finish

SHUTTER MODEL	ULTRAVIOLET .3-.4µm (microns)		VISIBLE .4-.75µm (microns)		INFRARED .75-.106µm (microns)	
	(Z) AlSiO	(ZM) $AlMgF_2$	(Z) AlSiO	(ZM) $AlMgF_2$	(Z) AlSiO	(ZM) $AlMgF_2$
VS35	N/A	5 W/mm^2	10 W/mm^2	5 W/mm^2	10 W/mm^2	5 W/mm^2

For reflectance graph, please visit http://www.uniblitz.com/optical-shutters-comparison-chart.aspx

Blade Samples are available upon request.

Product Options

Part Number: **VS35S** ❶ ❷ ❸ ❹ ❺ ❻ – ❼ – ❽ – ❾ – ❿

Example Part Number:
VS35S2ZM0R3-HS-EC-NL-100

❶ Aperture Size\Type:
VS35S: 35mm
VS35E: 35mm (For use with D880C Driver)
VSR35S: 35mm (Normally open)[4]
VSR35E: 35mm (Normally open, for use with D880C Driver)[4]

❷ Housing:
1: Un-housed
2: #2 Housing

❹ Electronic Sync:
0: Omit Sync.
1: Electronic Sync. Included

❸ Blade Finish:[3]
T: Teflon® Coated S.S. Blades
ZM: AlMgF2 Coated BeCu Blades[1]
Z: AlSiO Coated BeCu Blades[1]

❺ 18" Flying Leads:
L: 18 Inch Flying Leads Included[2]
- ***For un-housed devices only***
- ***Leave blank*** *if not required*

❻ High Temp Mod:
R3: High Temp. Modification[2]
- ***Leave blank*** *if not required*

❼ Heat Sink:
HS: Actuator coil heat sink[2]
- ***Leave blank*** *if not required*
- *Optional for an un-housed device*
- ***Included with #2 Housing—no designation required***

❽ Encapsulated Coil
EC: Encapsulated Coil Included[2]
(For use with vacuum)
- ***Leave blank*** *if not required*

❾ RoHS Compliant Version:
NL: RoHS Compliant[2]
- ***Leave blank*** *if not required*

❿ Mounting Options (by type, #2 Housing Required):
- ***Leave blank*** *if not required*
- **17:** VS14/25 F-C Video Adapter • **21:** Zeiss Axiovert Type • **22:** Nikon SBX Type • **23:** Olympus BH/IMT Type
- **24:** Olympus BX/IX Type • **26:** Leica Type • **27:** Nikon Type • **28:** Olympus IX Transmitted Type
- **29:** Nikon TE Type • **30:** Leica DM/DMIR/DMIRB Type • **31:** Nikon Confocal Type
- **32:** Nikon 80i Type • **100:** Mounting Ring • **105:** C-Mount Adapter (Male)
- **106:** C-Mount Adapter (Female) • **110:** T-Mount Adapter

[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] *Please visit our website for more information regarding this option.*
[3] *Other blade options are available through special order.*
[4] *If #2 Housing is selected, modification to housing is required.*

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

803 Linden Avenue • Rochester, NY 14625 • 585-385-5930 tel • 800-828-6972 toll-free • 585-385-6004 fax • www.uniblitz.com

Due to our ongoing product development program, Vincent Associates reserves the right to discontinue or change specifications or designs at any time, without incurring any obligations. Teflon is a registered trademark of E.I. DuPont. Drawings shown for illustrative purposes only. Updated 04/13. *Specification sheet Ver. 4.1*

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP