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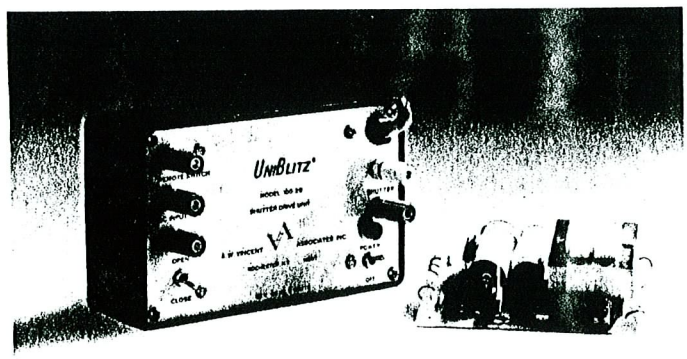
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Find the *Vincent / UniBlitz 100-2B* at our website: ***Click HERE***

VINCENT ASSOCIATES

ADVANCED ELECTRO-MECHANICAL ENGINEERING • 1255 UNIVERSITY AVENUE • ROCHESTER, NEW YORK 14607 • (716) 473-2232

100-2B/B SHUTTER DRIVE UNIT



- Offered in P.C. card, or cased.
- Repeat operations of 10 per second.
- Operated by switch closure or 5V DC logic signal.
- Output: 60V pulse, 5V holding power.
- Power input: 117V, or 220V, 3-prong plug (6" leads on 100-B).

These units contain the circuitry to properly operate our complete line of Uniblitz® shutters. Activation of the shutter is accomplished either by a mechanical/electrical switch closure or an external input pulse. The shutter will then remain open until the switch is opened or the input pulse removed. Exposure times range from the shutter's fastest time to infinity, determined by the length of time the unit is activated. A dwell time of 40 msec is required between exposures.

CIRCUIT DESCRIPTION

T1 supplies High and Low voltage. The High voltage is rectified by a half wave rectifier D5 to directly charge C2. When Transistor Q1 is turned on, Q2 is triggered at the same instant discharging C2 into the 5V shutter coil. As C1 drops below 8.3V, D6 becomes forward biased supplying hold voltage and causing SCR (Q2) to turn off. C1 then begins to charge to peak. The 5V shutter will turn off when transistor Q1 is turned off. The circuit is now ready to await the next drive signal.

Shutter drive signal can be made by OPEN/CLOSE switch provided, supplying a TTL (5V) logic signal to the DC input, or by connecting a mechanical or electronic switch into the REMOTE input.

OPERATION

1. Check to see that the power switch is in the OFF position and shutter OPEN/CLOSE switch is in the CLOSE position.
2. Connect a Uniblitz shutter to the yellow and blue binding posts on the 100-2B. (Yellow and blue wires on 100-B)
3. Insert the three prong plug of the 100-2B (Gray wires on the 100-B) into power line (110V or 220V) push the power switch to the POWER position.
4. Without connections to the Red, Green, or Black 5 way binding posts, the shutter will remain closed. Moving the shutter control switch to the OPEN position will cause the shutter to open. Moving the switch to the CLOSE position will cause the shutter to close. (with shutter open the input is disabled)
5. For remote switching, connect a mechanical or electronic switching circuit to the Red and Green 5 way binding posts (100-2B) or to leads (100-B). A closed circuit on these connections will cause the shutter to open and an open circuit will cause the shutter to close.
6. A positive 5V logic signal (TTL) to the Green and Black 5 way binding posts (100-2B) or leads (100-B) will cause the shutter to open and remain open for the duration of the logic signal. When signal is removed shutter will close.
7. For sequence or tandem operation of two or more shutters see figures 1, 2 and 3 on the reversed side of this sheet.

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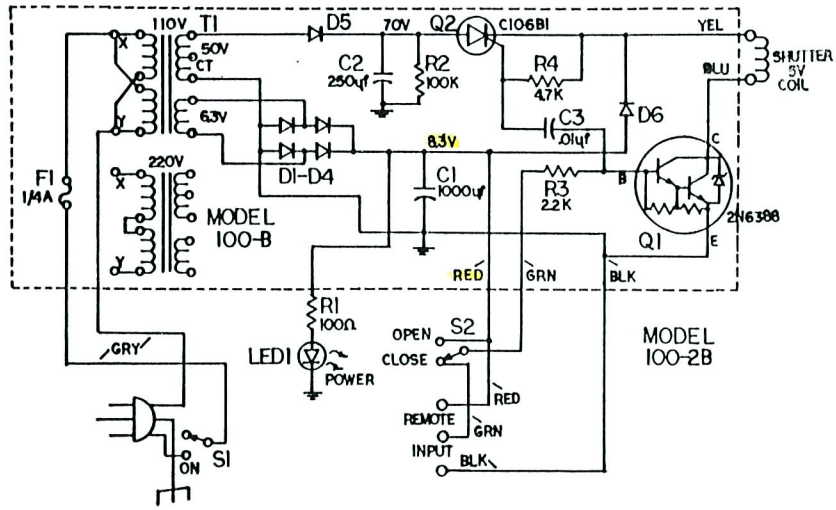
SPECIFICATIONS

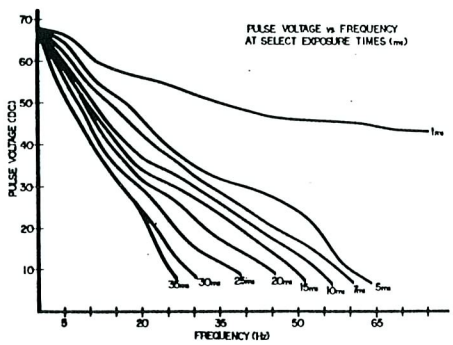
Electrical

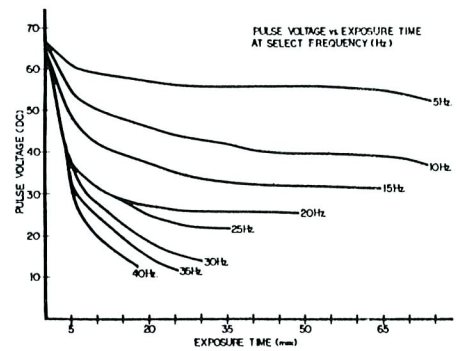
1.	Input Power	115V or 220V 50/60 Hz (selectable by wire jumpers on PC board)
2.	Input Control	5V DC logic signal (TTL) at 5 mA. (MAX. 20V MIN. 3.5V)
3.	Output	60V capacitive discharge dropping to 5VDC.
4.	Repeat Operations	10 per second (minimum dwell time 40 msec. between exposures) (See graphs below for additional pulse information)

Mechanical

1.	Controls	ON/OFF toggle switch, OPEN/CLOSE toggle switch
2.	Connectors	Five 5 way binding posts on ¾ centers color coded as described in operating instructions. (note 6" tinned leads on 100-B color coded also)
3.	Fuse	¼A 3AG (mounted to PC Board)
4.	Indicators	Power ON LED
5.	Size	3¾ x 6¼ x 3 (100-2B) Black plastic case.
		3⅛ x 4 x 2¾ (100-B) Open frame PC board
	Net Weight	1½ lbs. (100-2B) ¾ lb. (100-B)
7.	Shipping Weight	2¼ lbs. (100-2B) 1¼ lbs. (100-B) (weights approximate)







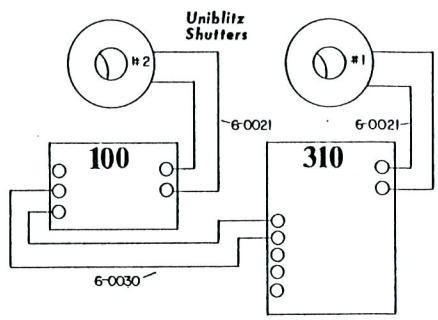


FIG.-1

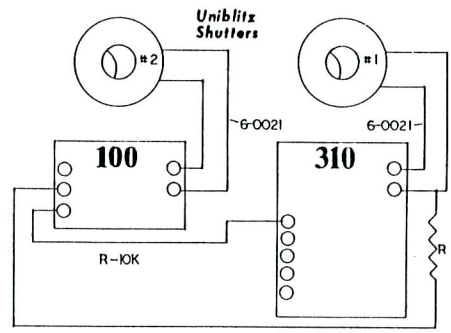


FIG.-2

Special Applications

1. Figure #1 shows how to use a 100-2B and a 310-B shutter timer control interconnected to drive two shutters simultaneously.
2. Figure #2 shows how to use a 310-B and a 100-2B interconnected to drive two shutters alternately: shutter #1 normally closed and shutter #2 normally open. Shutter #2 opens as shutter #1 closes: #1 is timed to open, shutter #2 timed to close.

   (This can also be accomplished by setting the shutters and controls as to figure #1 and setting the OPEN/CLOSE switch of the 310-B to the OPEN position. Shutter #2 will be timed close, shutter #1 will be timed open)
3. Figure #3 shows the use of two 100-2B drive units interconnected to drive two shutters alternately with external control applied to one of the 100-2B inputs

ACCESSORIES

6-0013:	Remote operate cable. 100-2B, 122, 310, 325 controls, 20 ft. long, 2 wire.
6-0015:	7 pin female socket one end, 5 ft. long, 7 wire. Pigtail other end.
6-0016:	7 pin female socket one end, 25 ft. long, 7 wire. Pigtail other end.
6-0021:	For all shutters equipped with 4 pin connector, 5 ft. long, 4 wire.
6-0030:	Interconnecting cable between Uniblitz controls, 10 ft. long.

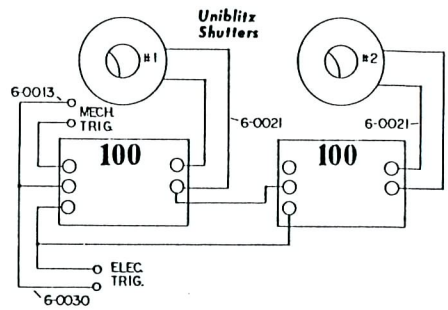


FIG.-3

WARRANTY

Great care is taken to ensure that our products are free from defect when shipped. Defective units will be replaced or repaired at no charge, excepting transportation charges, if returned within 90 days from the date of shipment. Burned out coils are not covered by this warranty.
Vincent Associates will consider accepting the return of unused equipment if returned within 30 days from the date of shipment subject to a 20% restocking charge. This offer does not apply to used or damaged equipment.

PURCHASING TERMS AND DISCOUNTS

Terms: ½% — 10 days, net — 30 days. Invoiced and payable in U.S. Dollars. F.O.B. — Rochester, New York. Shipments are made by UPS or Federal Express. Distributor discounts and quantity OEM discounts will be offered at the time of purchase. Minimum shop order is $200.00. Due to our ongoing product development program. Vincent Associates reserves the right to discontinue or change specifications or designs of any products at any time, without incurring any obligations.

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