

1.800.828.6972

RS20B 20mm Bi-Stable Shutter System RoHS

Features

- A new device based on proven technology, the RS20 is a bi-stable shutter system containing all drive components within the shutter housing.
- Rectangular aperture (20mm diagonal)
- Control only requires a supply voltage (5-12VDC) and open/close pulses (TTL)
- Can be utilized as a development platform with scalability to custom sizes and customer unique specifications.

Applications

- Non-uniformity correction applications
- Spectrometry
- High Speed Digital Imaging Systems



¹This chart lists preliminary timing values with a 12 VDC supply voltage, connected to the driver IC: ON Semi LV8548MC. For timing with other supply voltages contact Vincent Associates.

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2			
2			•

Fig. 1 RS20 20mm Bi-Stable Shutter

	RS20B	Time (msec.) ¹
O-A :	Delay time on opening after current is applied	8.2
A-C:	Transfer time on opening	10.6
D-E:	Delay time on closing after current is applied	11.4
E-G:	Transfer time on closing	9.8
МТР	Minimum Trigger Pulse	25
MET	Minimum exposure time	26
TEP	Typical Exposure Pulse	100

Electrical

COIL RESISTANCE	SUPPLY VOLTAGE ²	TRIGGER PULSE TO OPEN ²	TRIGGER PULSE TO CLOSE ²	OPEN/CLOSE PULSE WIDTH (msec.) ²
8 OHMS	+5-12VDC	+5V Active High TTL	+5V Active High TTL	25.0

² See Fig. 3 for connector pin-outs. Standard configuration RS20B is a RoHS compliant device.

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Mechanical

SHUTTER	WEIGHT UNCASED	OPERATING TEMP. (DEGREES)	MAX. FREQUENCY OF OPER- ATION ²	NUMBER OF SHUTTER BLADES
RS20B	0.32 oz (9.1g)	-10 to +65° C	10 Hz	1

Measurements are taken in free air, 25°C ambient with a 12V supply voltage. For additional information on maximum sustained frequencies obtainable with different drive voltages, please contact one of our technical representatives.





This 18" 401P harness will be included with the device.

Optical

The standard shutter blade is made of a carbon impregnated PET (polyethylene terephthalate) base material that is ideally suited for optics applications requiring high emissivity and optical density. See uniblitz.com for specific emissivity data. Because the material is a thermoplastic polymer, maximum surface temperature should not exceed 100°C. For applications requiring higher heat resistance please contact a technical representative for alternative blade materials.

Product Options



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