MVS-3000 Series Machine Vision Strobes



Description

The Excelitas MVS 3001 (AC) and 3008 (DC) Machine Vision Strobe systems produce short duration, high intensity light pulses for industrial vision applications. These systems consist of an enclosure housing, power supply and trigger module, and a flashlamp. The flashlamp is connected to the power supply through high voltage connectors.

These systems are particularly useful when conventional fiber optic or structured lighting systems cannot provide sufficient illumination for a particular area. The MVS 3001 and 3008 drive linear and ring flashlamps. With an appropriate reflector and a linear flashlamp, illumination is increased and light can be projected to a specified area. A ring flashlamp can be positioned around the lens assembly of a CCD camera in a production inspection system, thereby allowing the camera to be located closer to the object plane.

Features

- · Operates both ring and linear flashlamps
- Flash rates up to 60 Hz
- Long lamp life
- Optically isolated trigger
- 60 watts output power





MVS-3000 Series

Optical Specifications (1)		
Spectral bandwidth (1)	200 to 1100+ nm	
Flash rate	60 Hz maximum	
Flashlamp life (3)	>10 ⁷ flashes	
Flash duration (2)	44 microseconds with 2.5" diameter ring lamp typical	
Energy input to flashlamp	1 joule (2 microfarads at 1kiloVolt)	
Note 1: Spectral bandwidth may be extended into the	ultraviolet by using other flashlamp envelope materials. Note	
2: Measured at 1/3 of peak value.		
Note 3: Prior to light output decreasing to 70% of the i	nitial value.	

Environmental Specifications		
Operating temperature Storage temperature Shock and vibration	-10 to +110°C (-23 to +43°F) -40 to +194°C (-40 to +90°F) 1.5 g. 5 to 20 Hz per MIL-STD 810C	

Electrical Specificatior	าร		
Type Line input voltage Input current Output voltage (1) Output power (2) Reference voltage (3)	MVS-3001 115/230 ±10% VAC 50/60 Hz (1) 1.2 amps maximum (115 VAC) 1000 volts factory set 60 watts maximum +5 volt pulse into opto-isolator with 150 ohm nomin	MVS-3008 15 to 28 VDC 4 amps peak at 24 VDC 1000 volts factory set 60 watts maximum	
Tirgger input: (4) Trigger	10 to 100 microseconds		
Pulse duration	3 to 10VDC	2 to 10 VDC	

Note 1: Factory set at 115 VAC

Note 2: Output voltage may be adjusted using an external voltage reference source. MVS 3001, 150 volts per volt of reference. MVS 3008, 100 volts per volt of reference. Note 3: Delay between flash command and light output is 8 microseconds typical.



For more information visit our web site at www.excelitas.com All values are nominal; specifications subject to change without notice.

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