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Electronic Shutter System



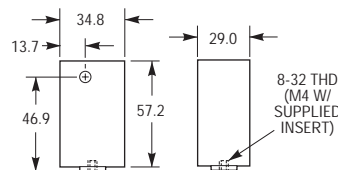
- Fast millisecond response time
- Patented, reliable design
- Handles up to 5 Watts CW
- Crystal clock for precise timing
- Wide range of shutter opening times
- Shutter actuation can be pre-delayed
- Manual or electronic triggering
- Retrigger lockout prevents false command

Our bistable electronic shutter employs a novel, patented design which requires no holding voltage or current to maintain the shutter in either the open or closed positions in normal operation. Since the shutter has only one moving part, the blade, it provides highly reliable performance and a service life of over 1 million operations. Pulses from 5–30 V drive the shutter—a positive pulse to open, and a negative pulse to close. Transition times are dependent on pulse amplitude and can be less than 3 msec. The 5.6 mm aperture accommodates laser beams with up to 5 W CW incident power. You can postmount the shutter by using the SP Series post, a VPH Series post holder, and a B-2 base, all included.

Our digital shutter controller provides precise on/off control for durations from 10 msec–990 sec. A timed exposure can be initiated either from the front panel, through TTL compatible signals, or from the pushbutton cable. In the MANUAL mode, the shutter can be set opened to facilitate alignment or focusing. The RESET command, required before each actuation, prevents accidental opening and closes the shutter even during a timed opening. A 10 sec shutter opening delay can be activated as a convenience in holography, and other applications, when vibrations must die down before exposure. The 845HP shutter system includes the controller, a pushbutton cable, an 846HP shutter, and a base.

Specifications

Shutter		
Aperture		5.6 mm
Height		46.9 mm
Maximum Optical Power		5 W CW
Cable	2.44 m (8 ft) terminated in a 4-pin DIN connector	
Electrical Input	Positive or negative pulse with 5-30 V amplitude into 13 Ω	
Dimensions [in. (mm)]	2.25 x 1.35 x 1.14 (57.2 x 34.3 x 29)	
Controller		
Shutter Response Time	<3 msec	
Exposure Duration	10 msec - 990 sec	
Timing Accuracy	0.05% ± 10 μsec	
Maximum Repetition Rate	10 Hz	
Operating Modes	TIME:	Timed shutter opening
Operating Modes	MANUAL:	Open and close shutter independent of time setting
Operating Modes	START:	Initiates time or manual exposure
Operating Modes	RESET:	Closes shutter
Operating Modes	DELAY:	Optional 10 sec delay before shutter opening
Pushbutton Cable [ft (m)]	8 (2.44)	
Power Requirements	115 VAC at 100 mA or 230 VAC at 50 mA	
Dimensions [in. (mm)]	3.25 x 6.00 x 6.25 (82.6 x 152.4 x 158.8)	



Ordering Information

Model	Description
845HP-01	115 V Shutter System
845HP-02	230 V Shutter System
846HP	Shutter Only



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