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Find the *Newport / Oriel 71445* at our website: *Click HERE*

ORIEL INSTRUMENTS
A Newport Corporation Brand

Electronic Safety Shutters



- **Terminate beam without shutting down the system**
- **Usable with sources to 1000 W**
- **Convenient remote control switch**

71445 Safety Shutter mounted to Oriel Arc Lamp Housing condenser.

Most of our light sources produce UV radiation; the arc and deuterium sources produce very intense ultraviolet. Exposure, even for short periods of time, can cause severe skin and eye burns. It is best to shut off the source when it is not in use. When this is impractical because of frequent use, these safety shutters provide a reliable alternative. The shutter enclosure mounts to the condenser output of any Oriel® Light Source, and closes off the beam. You can also use these shutters for timed exposures (the shutters do not have "bounce" problems).

Specifications

Input	95 - 130 VAC/0.25 A, max 190 - 260 VAC/0.125 A, max
Output Hold, Open*	12 VDC, nominal 0.5 A, nominal
Output Hold, Close	0 V, 0 A

*Initial opening V and A are higher.

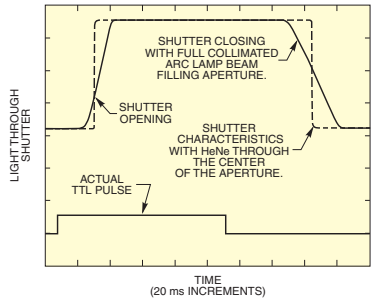


Fig. 1 The open and close times depend on the shutter speed and the beam power distribution. For this figure we used a 1.5 Inch Series, F/1.5 condenser on the output of our arc lamp housing. The second trace shows the open and close characteristics of the same 71445 Shutter with a ~ 1 mm HeNe laser beam.

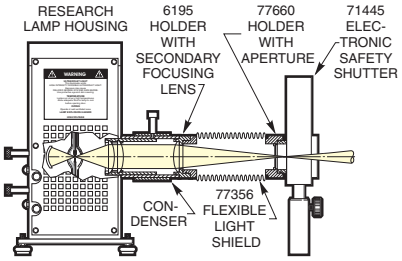


Fig. 2 Secondary focusing lens is used to focus the output from a Research Source onto the 71445 Electronic Shutter. An aperture is used to clean the beam.

Ordering Information

Electronic Safety Shutters

Model (Metric)	Description
71445	Electronic Safety Shutter, 1.5 Inch Series
71446	Electronic Safety Shutter, 2 Inch Series
71447	Electronic Safety Shutter, 3 Inch Series

Apertures

Model (Metric)	Description
71340	Beam Aperture Disk, 1.5 inch Diameter, 1.0 inch Aperture
71360	Beam Aperture Disk, 1.5 inch Diameter, 0.4 inch Aperture
71370	Beam Aperture Disk, 1.5 inch Diameter, 0.2 inch Aperture
71380	Beam Aperture Disk, 1.5 inch Diameter, 0.1 inch Aperture
71390	Beam Aperture Disk, 1.5 inch Diameter, 0.04 inch Aperture

Accessories

Model (Metric)	Description
6195	Flanged Lens Holder, 1.5 Inch Series

WEB *See our website for more info*

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