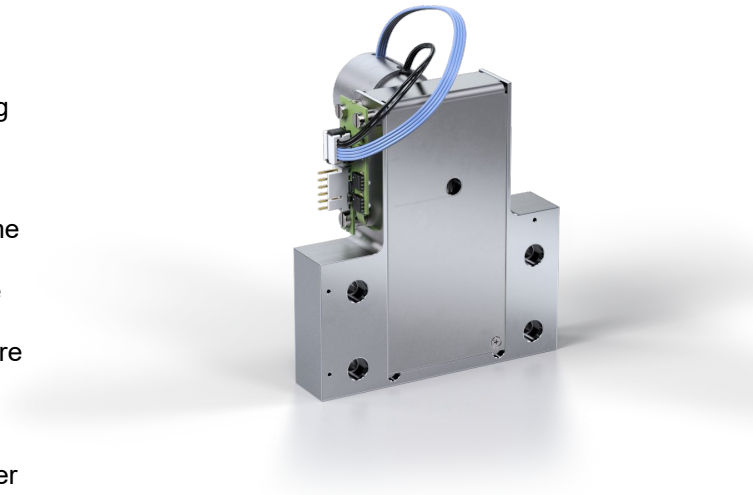
Optical Beam Shutter Line — Solenoid Technology

Laser Shutter DS200X8

Advanced Optical Shutter



Lasers are used for a variety of technical processes, for example in medical technology, analytics, product labelling and distance measurements.
The Laser Shutter DS200X8 combines high mechanical durability with the possibility to detect position and mirror temperature. The shutter has an extremely fast closing time of maximum 15 ms. When the shutter is closed, the laser beam is absorbed in a light trap. The reflection mirrors are available for a wide range of wave lengths. The reflection ability of the mirror is monitored redundantly by temperature measurements. The final assembly of the device takes place under clean room conditions.

As a manufacturer of shutters and rotary solenoids for laser applications, Kendrion has developed a wealth of experience and individual solutions for customer applications.

Characteristics

- Photocell end position detection
- Redundant temperature monitoring of the mirror
- Closing of the aperture in the case of power failure
- Low emission materials
- Laser beam trap
- Connection for flushing air
- Optional heat absorption with additional water cooling

Technische Daten[1]	Laser Shutter DS200X8
Aperture	6 mm, other diameters on request
Laser power	up to 100 W with additional water cooling
Wave length	266 nm, 355 nm, 532 nm, 1064 nm, other wave lengths on request
Switching frequency	up to 5Hz
Closing time	<15 ms
Beam diameter	0.8 - 2 mm, other diameters on request
Mechanical durability	10 Mio. switching cycles
Sensors	Photocell positioning, temperature monitoring with NTC, TTL output
Case	Aluminium carrier, dimensions approx. 100 x 60 x 100 mm
Mounting	Mounting holes, exact positioning on request
Power supply	12 V DC pull voltage, 6 V DC holding voltage, other voltages on request
Power requirements	approx. 4 W (@ 6 V DC)
Storage temperature	-25 °C to +60 °C

[1]We reserve the rights of modification, omission, error with respect to the products. Illustrations similar.