

Optical Beam Shutter Line

Solenoid Technology

Shutter D23 DS20053

High Performance Optical Shutter D2

Based on the standard rotary solenoids, Kendrion Kuhnke Automation offers a wide range of highly reliable optical shutters that are designed to block light and laser beams for safety purpose.

The D23 optical shutter represents the technical basis with remarkable properties and can be used in a wide range of applications, such as medical instruments, aeronautical instruments, fiber optic signal transmission systems and mass photometry.

The D23 optical shutter combines a solid construction designed for utmost reliability and durability.

This shutter has a fast switching time of approximately 30 ms. With at least 10 million switching cycles, it is designed for reliable continuous operation.

In addition, the integrated photocells enable us to detect the switching position. The bouncing effect is optimized by using an integrated damping mechanism.

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

Characteristics

- High lifetime
- Fast closing time
- Photocell end position detection
- Closing of the aperture in case of power failure possible
- Low emission materials
- Flexibility for customization



Technical data	Optical Shutter D23 / self-restoring
Power supply	24 V DC (other voltages on request)
Duty cycle	100% duty cycle
Rotary angle	30° (other angles 20°, 40°, 60° and 90° on request)
Closing time	typical value of 30 ms
Switching frequency	up to 5 Hz
Sensors	Photocell positioning
Mechanical durability	10 mio. switching cycles
Operating temperature	-5 °C... +35 °C
Blade material	Anodized aluminum in black (other on request)
Mounting	M3 threaded holes

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