

KENDRION SOLUTIONS

## Rotary solenoid for precise X-ray control

Protection from ionizing radiation in radiography

To protect patients and medical staff from the adverse effects of ionizing radiation in radiography, the radiation source must be reliably blocked. Kendrion rotary solenoids are used in combination with a lead paddle as optical shutters to block X-rays and release them at the right moment. This protects people in the immediate vicinity from excessive doses of X-rays.

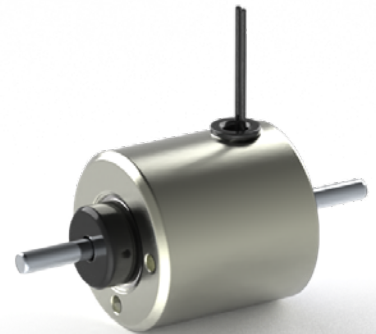
Based on our rotary solenoid portfolio, Kendrion offers a wide range of highly reliable optical shutters for light and laser beam blocking in the field of optical safety technology. The rotary solenoid D2 is installed in combination with a lead paddle, to be provided by the customer, between the radiation source and the body to be examined, in order to reduce or block the intensity of the radiation. The response time of only 30 ms allows fast control of the X-ray radiation. To acquire an X-ray image, the shutter is opened and closed in a very short time to allow the necessary radiation to pass through. The D2 rotary solenoid convinces with a long lifetime of

at least 10 million switching cycles and highest reliability. In addition, it is equipped with end position detection by photoelectric sensors and closes the shutter in the event of a power failure, making it an ideal solution for radiography applications.

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

### Product features

- high lifetime
- fast closing time
- photocell end position detection
- closing of the paddle in case of power failure
- low emission materials
- flexibility for customization



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