Ring-Sensors

The purpose of ring sensors from XECRO is to detect small metal parts with a static or dynamic functional principle. Static detection activates the output as long as an object is located in the sensing area (e.g. wire break detection). Dynamic detection means that the output is activated once an object entering the sensing area.
Due to the high resolution, a short response time, an adjustable impulse lengthening up to 150 ms, and a change-over switch to select normally closed or normally open function, XECRO ring sensors are suitable for general purposes. For optimal cable routing, the M12 male connector is mounted parallel or in a right angle to the wiring. They are protected against short circuit, polarity reversal, and overload.

Ring diameter	Operating Principle	Resolution
Ø 6.1 mm	static	> 1.0 mm
Ø 6.1 mm	dynamic	> 0.5 mm
Ø 10.1 mm	static	> 1.0 mm
Ø 10.1 mm	dynamic	> 0.5 mm
Ø 15.1 mm	static	> 2.0 mm
Ø 15.1 mm	dynamic	> 0.8 mm
Ø 21.1 mm	static	> 2.0 mm
Ø 21.1 mm	dynamic	> 1.0 mm

Common Specifications

Operating Voltage	10 ... 30 VDC
Reverse Polarity Protection	Built-in
Output Load Capability	200 mA
Short Circuit Protection	Built-in, self-resetting
Voltage Drop	1.5 V @ 200 mA
Operating Temperature	–20 ... 70°C | -4 ... 158 °F
Protection Class	IP67
Switching Indicator	Integrated, yellow
Sensing Face Material	PBT
Ring Material	PA6.6-GF30

Features

- Diffferent Ring-Diameters
- High Resolution
- Short Response Time
- Adjustable Impulse-Lengthening
- NO | NC selectable
- Static | Dynamic selectable
- Polarity reversal and short-circuit protected
- LED status indication