

Unlocking New Possibilities

Inductive Ring Sensors



Product Highlights



Separable Housing

- Quick installation and removal of the sensor on the hose
- Detection of metallic objects anywhere in the active field
- Two-part coil



Cable Outlet in Hose Direction

- Cable is routed parallel to the hose
- Cable routing does not obstruct the system design
- No cable kinking



Flexible Installation Thanks to Soft Binder

- Easy and secure mounting on different hose sizes
- Stable fixation in vibrating environment
- No tapering of the hose





Functions at a Glance

Inductive ring sensors are available with a static and dynamic functional principle and enable quick and reliable detection of small metallic parts in hoses – even in the event of contamination.

Use in Areas with Limited Space Availability

Thanks to the compact design and weproTec technology, several sensors can be installed directly next to each other without influencing each other.

User-Friendly Operation

Parameterization and the IO-Link interface allow parameters and process data to be read out and processed reliably.

Plug and Play

Inductive ring sensors can be easily installed via Plug & Play and quickly put into operation without prior adjustment.

Correction Factor 1

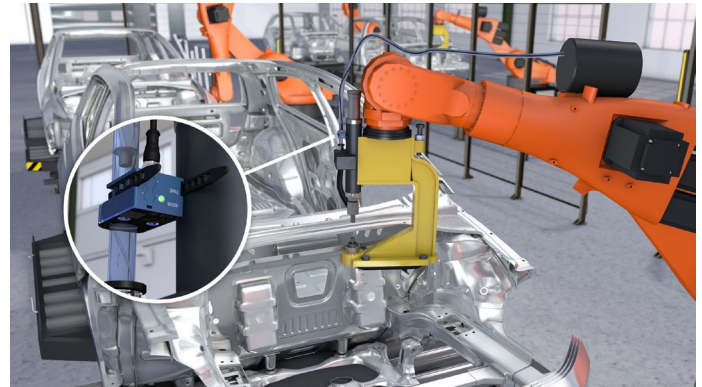
Thanks to the correction factor 1, inductive ring sensors reliably detect objects made of different non-ferrous metals from a size of 2 mm.

Numerous Usage Options

From reliable presence and bottleneck monitoring of small parts in feed hoses to precise size differentiation and wire breakage detection, inductive ring sensors offer solutions for a wide range of applications.

Automotive Industry

In the automotive industry, robots connect aluminum body parts with rivets. In automated punch riveting processes, aluminum or brass objects are transported to the punching device through plastic hoses by compressed air. To check the correct hose routing, an inductive ring sensor is installed on the hose. This ensures reliable detection of objects of different sizes and alloys.



Assembly and Feeding Technology

In assembly and feeding technology, fasteners such as screws, nuts and rivets are automatically conveyed, sorted and separated by feeding systems. These are supplied to the screw system via feed hoses by compressed air. Inductive ring sensors mounted on the hose detect metallic parts as small as 2 mm at high speed.



You can find all the details and even more about inductive ring sensors on our website.



Product Overview

Inductive ring sensors are available in four ring sizes to accommodate different hose sizes. The sensors are available with two functional principles, high resolution, short response times and an adjustable pulse duration.



Product		Outer hose diameter			
		10 mm	15 mm	25 mm	40 mm
	IR2x00x	☒			
	IR3x00x	☒	☒		
	IR5x00x	☒	☒	☒	
	IR8x00x	☒	☒	☒	☒

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