wenglor
the innovative family

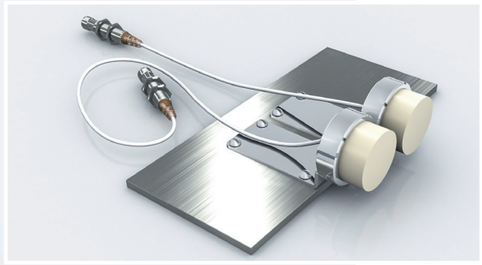
High Temperature Inductive Sensors

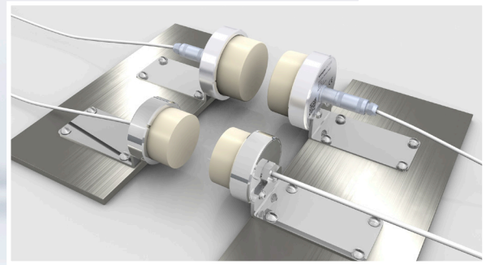
Series INTT2 and INTT3 Sensors

for Temperature Ranges from −10 to +250 °C

Series INTT2 and INTT3 sensors offer two decisive advantages: outstanding economic efficiency thanks to an average service life of more than 5 years and an analysis module integrated into the sensor's plug. This makes the sensors extremely compact.

Silicone-Free





IO-Link

More Effective Use of Installation Space in Your Systems

weproTec opens up new opportunities for system design.
The patented technology prevents sensors mounted directly next to each other from influencing each other reciprocally. Larger numbers of scanning operations can thus be executed in extremely tight spaces, or system safety can be enhanced by means of redundancies.

Where sensors are installed opposite each other, clearance is reduced from 8 to 1.5 times nominal switching distance thanks to weproTec.

There are two variants to choose from:

- Plug-in sensor head for quick exchange
- Sensor head with permanently connected cable for high degree of protection

Just Plug It In and Get to Work

- Easy installation thanks to ultra-compact analysis module inside the sensor's plug
- Highly compatible thanks to standardized M12 plug
- Flexible positioning with cable lengths of 1 to 30 m
- Special cable available for applications with moving sensor head

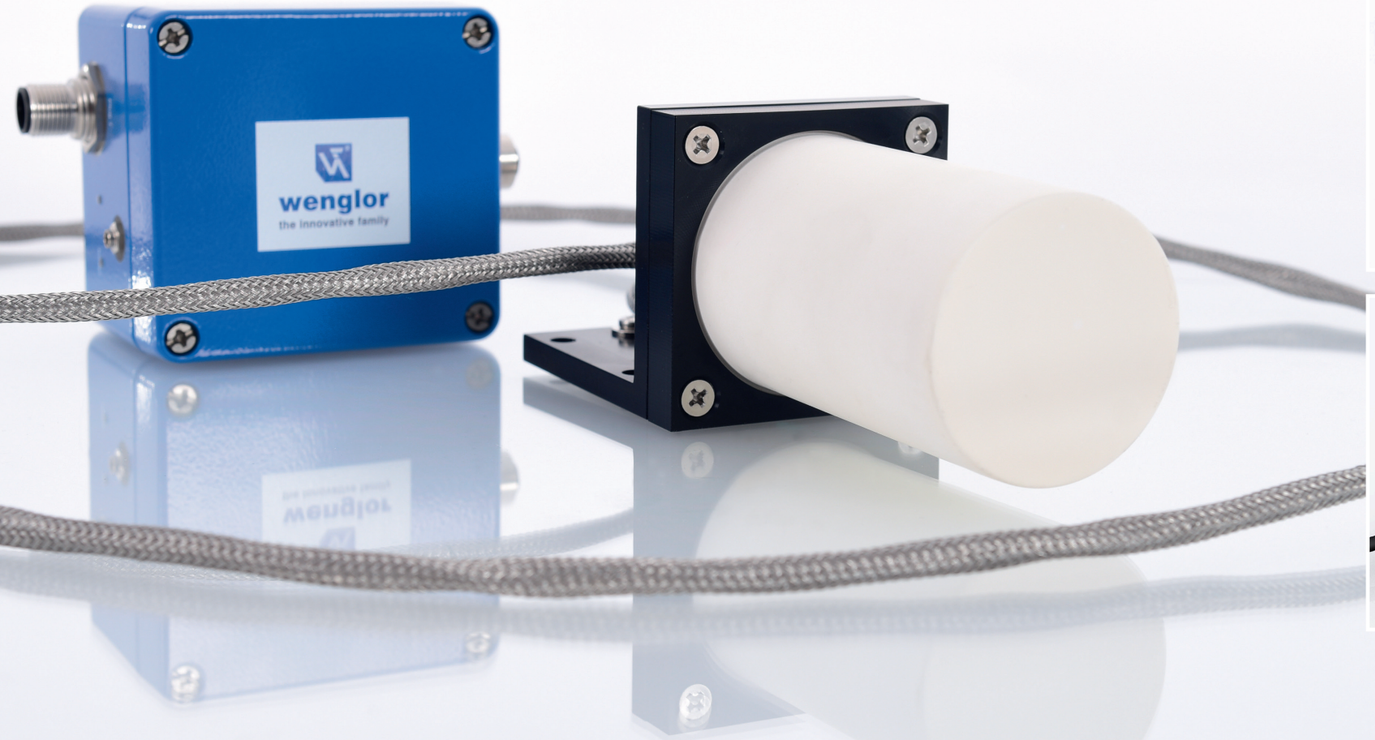
Optional Configuration via IO-Link

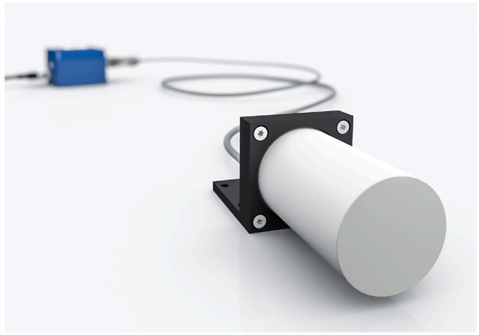
- Individual configuration of sensor parameters via the controller
- Reduced number of sensor types and inventory thanks to variably adjustable switching distances
- Plug & play with data storage function for sensor replacement without any programming effort

Series INRT Sensors

for Temperature Ranges from −60 to +450 °C

Series INRT high temperature inductive sensors are global leaders in terms of heat and cold resistance.





Maximum Reliability

- Ceramic sensor head with an unequaled average service life of more than 7 years
- Large switching distance: 25 mm
- Easy sensor replacement thanks to interchangeable sensor head

Connection Equipment for Extreme Conditions

- High-temperature sensor cable with insulation made of fiberglass fabric and stainless steel jacket
- Flexible positioning with cable lengths of 5 to 20 m
- Highly compatible with standardized M12 plug

Rugged, Easy-to-Use Analysis Module

- Separate analysis module with intuitive control panel
- Plainly visible switching status indicator
- Rugged aluminum construction with IP67 protection
- For temperature ranges from 0 to +50 °C

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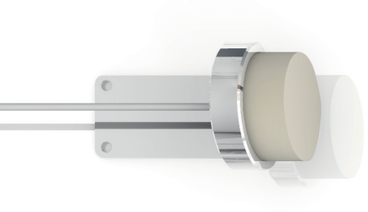
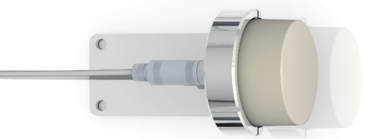
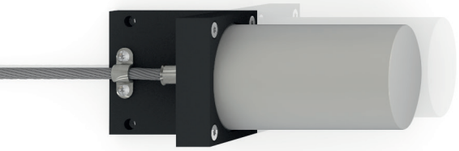
For Safe Processes in Industrial Ovens and Drying Systems

High-temperature inductive sensors detect metallic objects – contact-free. At extreme temperatures ranging from −60 to +450 °C, they conduct end-position detection and check for presence and correct positioning in order to assure trouble-free, efficient material flow. Processes can thus be optimized with regard to productivity and quality. As a result of their unique resilience, they are also used in chemical systems where ordinary sensors quickly begin to corrode.

Product Overview







	Type	Variable Switching Distances with IO-Link	Default Switching Distance	Temperature Range	Cable Length	Connection/Interface	Remark
Sensors with Fixed Sensor Head	INTT201	15/20/25 mm	25 mm	−10 to +250 °C	1 m	M12 × 1, 4-pin, IO-Link	
	INTT203	15/20/25 mm	25 mm	−10 to +250 °C	5 m	M12 × 1, 4-pin, IO-Link	
	INTT207	15/20/25 mm	25 mm	−10 to +250 °C	10 m	M12 × 1, 4-pin, IO-Link	
	INTT209	15/20/25 mm	25 mm	−10 to +250 °C	15 m	M12 × 1, 4-pin, IO-Link	
	INTT211	15/20/25 mm	25 mm	−10 to +250 °C	20 m	M12 × 1, 4-pin, IO-Link	
	INTT213	15/20/25 mm	25 mm	−10 to +250 °C	30 m	M12 × 1, 4-pin, IO-Link	
	INTT301	30/35/40 mm	40 mm	−10 to +250 °C	1 m	M12 × 1, 4-pin, IO-Link	
	INTT303	30/35/40 mm	40 mm	−10 to +250 °C	5 m	M12 × 1, 4-pin, IO-Link	
	INTT307	30/35/40 mm	40 mm	−10 to +250 °C	10 m	M12 × 1, 4-pin, IO-Link	
	INTT309	30/35/40 mm	40 mm	−10 to +250 °C	15 m	M12 × 1, 4-pin, IO-Link	
	INTT311	30/35/40 mm	40 mm	−10 to +250 °C	20 m	M12 × 1, 4-pin, IO-Link	
	INTT313	30/35/40 mm	40 mm	−10 to +250 °C	30 m	M12 × 1, 4-pin, IO-Link	
Sensors with Interchangeable Sensor Head	Sensor head						
	INTT220	15/20/25 mm	25 mm	−10 to +250 °C			
	INTT320	30/35/40 mm	40 mm	−10 to +250 °C			
	Analysis module with cable						
	INTT223				5 m	M12 × 1, 4-pin, IO-Link	For INTT220
	INTT227				10 m	M12 × 1, 4-pin, IO-Link	For INTT220
	INTT229				15 m	M12 × 1, 4-pin, IO-Link	For INTT220
	INTT231				20 m	M12 × 1, 4-pin, IO-Link	For INTT220
	INTT323				5 m	M12 × 1, 4-pin, IO-Link	For INTT320
	INTT327				10 m	M12 × 1, 4-pin, IO-Link	For INTT320
	INTT329				15 m	M12 × 1, 4-pin, IO-Link	For INTT320
	INTT331				20 m	M12 × 1, 4-pin, IO-Link	For INTT320
	Analysis module with cable for moving applications						
	INTT251				20 m	M12 × 1, 4-pin, IO-Link	For INTT220
	INTT351				20 m	M12 × 1, 4-pin, IO-Link	For INTT320
	INRT003		25 mm	−60 to +450 °C	5 m	M12 × 1, 4-pin	
	INRT007		25 mm	−60 to +450 °C	10 m	M12 × 1, 4-pin	
	INRT009		25 mm	−60 to +450 °C	15 m	M12 × 1, 4-pin	
	INRT011		25 mm	−60 to +450 °C	20 m	M12 × 1, 4-pin	

Inductive Sensors

Access complete technical data at

www.wenglor.com

Only available as PDF version