## **Inductive Sensor**

for Extreme Temperature Ranges

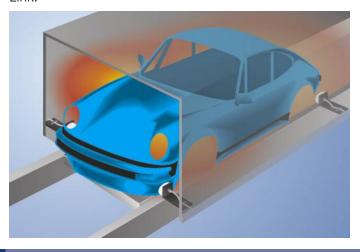
# INTT209

Part Number



- Easy to replace sensors with data storage feature
- Evaluation unit integrated into M12 sensor connector
- Highly efficient with an average service life of 5 years
- Three configurable switching distances: 15/20/25 mm

The high temperature inductive sensor can, with cable lengths of 1 to 30 meters, be positioned as needed in hot areas of systems and machines. Installation is also easy due to the ultra-compact design, as the evaluation unit is integrated into the M12 sensor connector. The sensor thus takes up far less space and is highly compatible thanks to its standardised design. The weproTec technology makes it possible to install the sensors directly next to or across from one another. In addition, sensor parameters like switching distance and output functions can be configured individually via IO-Link.



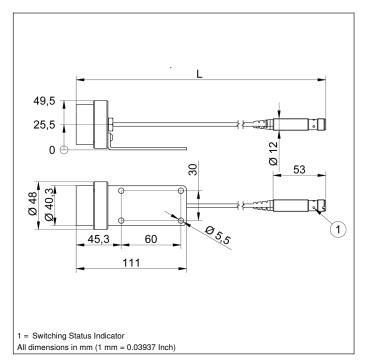
#### **Technical Data**

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Inductive Data				
Switching Distance	25 mm			
Standard Target	75 × 75 mm			
Correction Factors Stainless Steel V2A/CuZn/Al				
Mounting	non-flush			
Mounting A/B/C/D in mm	50/130/50/20			
Mounting B1 in mm	075			
Switching Hysteresis	< 10 %			
Electrical Data	V 10 70			
Supply Voltage	1030 V DC			
Supply Voltage with IO-Link	1830 V DC			
117	< 15 mA			
Current Consumption (Ub = 24 V)				
Switching Frequency	50 Hz			
Temperature Drift	< 10 %			
Sensor head temperature range	-10250 °C			
Temperature range, plug	070 °C			
Number of Switching Outputs	2			
Switching Output Voltage Drop	< 1 V			
Switching Output/Switching Current	100 mA			
Residual Current Switching Output	< 100 μA			
Short Circuit Protection	yes			
Reverse Polarity and Overload Protection	yes			
Interface	IO-Link V1.1			
Protection Class	III			
Service Life (T = +200 °C)	100000 h			
Service Life (T = +250 °C)	60000 h			
Mechanical Data				
Sensor head material	Stainless steel V2A;			
Sensor head material  Stainless steel PEEK; PTFE  Plug material  CuZn, nickel-p				
Degree of Protection	IP65			
Connection	M12 × 1; 4-pin			
Cable Length (L)	15 m			
PWIS-free	yes			
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	3706,54 a			
Function				
Error Indicator	yes			
Programmable switching distance	15/20/25 mm			
IO-Link				
Switchable to NC/NO				
Configurable as PNP/NPN/Push-Pull				
Error Output				
	704			
Connection Diagram No.	704			
Control Panel No.	B3			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	170 172			

### **Complementary Products**

IO-Link Master

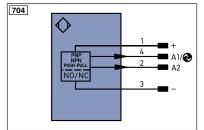




### Ctrl. Panel



01 = Switching Status Indicator



Leger	nd	PT	Platinum measuring resistor		Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Амах	Digital output MAX	
٧	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
Е	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	М	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Co	Wire Colors according to IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black	
RDY	Ready	E+	Receiver-Line	BN	Brown	
GND	Ground	S+	Emitter-Line	RD	Red	
CL	Clock	÷	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
•	IO-Link	Rx+/	<ul> <li>Ethernet Receive Path</li> </ul>	GN	Green	
PoE	Power over Ethernet	Tx+/	<ul> <li>Ethernet Send Path</li> </ul>	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output	Mag	Magnet activation		White	
BI_D+/-	- Ethernet Gigabit bidirect. data line (	A-D) RES	Input confirmation		Pink	
ENors42	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	

### Mounting

