Inductive Sensor

for Extreme Temperature Ranges

INRT003

Part Number

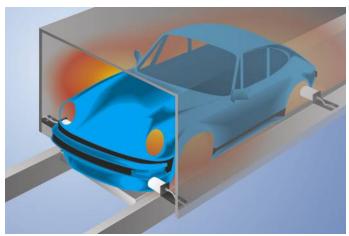


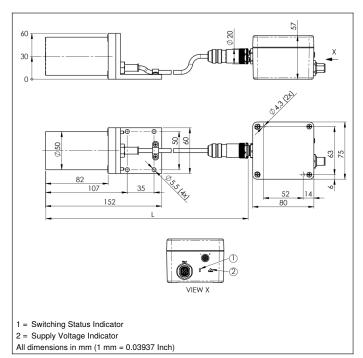
- Large temperature range from -60 to 450° C
- Long service life of up to 100 000 hours
- Quickly interchangeable sensor head

Technical Data

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Inductive Data				
Switching Distance	25 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	1,27/1,29/1,33			
Mounting	non-flush			
Mounting A/B/C/D in mm	95/200/40/85			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1830 V DC			
Current Consumption (Ub = 24 V)	< 70 mA			
Switching Frequency	200 Hz			
Sensor head temperature range	-60450 °C			
Analysis module temperature range	050 °C			
Number of Switching Outputs	2			
Switching Output Voltage Drop	< 3,5 V			
Switching Output/Switching Current	50 mA			
Residual Current Switching Output	< 10 mA			
Short Circuit Protection	yes			
Reverse Polarity and Overload Protection	yes			
Protection Class				
ervice Life 100000 h				
Service Life	100000 h			
Service Life Mechanical Data	100000 h			
	100000 h Ceramic			
Mechanical Data				
Mechanical Data Sensor head material	Ceramic			
Mechanical Data Sensor head material Analysis module material	Ceramic Aluminum			
Mechanical Data Sensor head material Analysis module material Degree of protection, sensor head	Ceramic Aluminum IP60			
Mechanical Data Sensor head material Analysis module material Degree of protection, sensor head Degree of protection, analysis module	Ceramic Aluminum IP60 IP67			
Mechanical Data Sensor head material Analysis module material Degree of protection, sensor head Degree of protection, analysis module Connection	Ceramic Aluminum IP60 IP67 M12 × 1; 4-pin			
Mechanical Data Sensor head material Analysis module material Degree of protection, sensor head Degree of protection, analysis module Connection Cable Length (L)	Ceramic Aluminum IP60 IP67 M12 × 1; 4-pin 5 m			
Mechanical Data Sensor head material Analysis module material Degree of protection, sensor head Degree of protection, analysis module Connection Cable Length (L) PWIS-free	Ceramic Aluminum IP60 IP67 M12 × 1; 4-pin 5 m			
Mechanical Data Sensor head material Analysis module material Degree of protection, sensor head Degree of protection, analysis module Connection Cable Length (L) PWIS-free PNP NO/NC antivalent	Ceramic Aluminum IP60 IP67 M12 × 1; 4-pin 5 m yes			

The sensors consist of a sensor head and an analysis module, and are laid out for use in very hot work environments. Together with unparalleled service life in hot surroundings, large switching distances assure maximum system availability. Easily interchangeable sensor heads with numerous standard cable lengths are additionally available as separate replacement partsSwitching distance can be quickly adjusted via a potentiometer within a temperature range of -60 to 450° C.

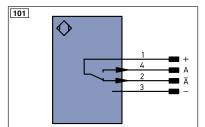




Ctrl. Panel



- 01 = Switching Status Indicator
- 05 = Switching Distance Adjuster
- 68 = Supply Voltage Indicator



_egend			PT	Platinum measuring resistor	ENARS422	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	
V	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	
E	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input		AMV	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 DIN IEC 75	
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+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)		Violet	
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output		Mag	Magnet activation	WH	White	
BI_D+/-	- Ethernet Gigabit bidirect, data	line (A-D)	RES	Input confirmation	PK	Pink	
ENORS42	Encoder 0-pulse 0-0 (TTL)	,	EDM	Contactor Monitoring	GNYE	Green/Yellow	

Switching Distance Deviation

