Inductive Sensor

for Extreme Temperature Ranges

INRT009

Part Number

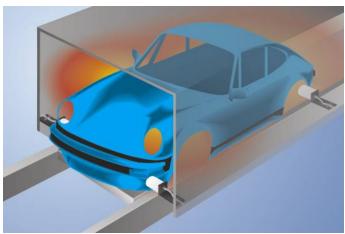


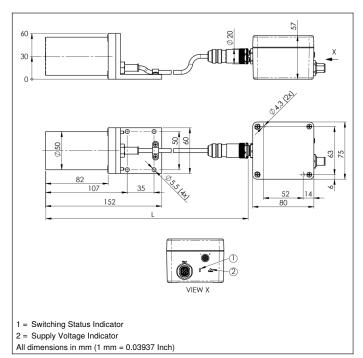
- Large temperature range from -60 to 450° C
- Long service life of up to 100 000 hours
- Quickly interchangeable sensor head

Technical Data

recillical Data					
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				
rrent 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 III					
Service Life 100000 h					
Mechanical Data					
Sensor head material	Ceramic				
Analysis module material Aluminum					
Degree of protection, sensor head	IP60				
Degree of protection, analysis module	dule IP67				
Connection	M12 × 1; 4-pin				
Cable Length (L)	15 m				
PWIS-free	yes				
PNP NO/NC antivalent					
Connection Diagram No.	101				
Control Panel No.	A19				
Suitable Connection Equipment No.	2				

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.

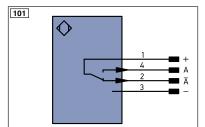




Ctrl. Panel



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



.eger	10		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 757	
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		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	

Switching Distance Deviation

