Inductive Sensor for Extreme Temperature Ranges

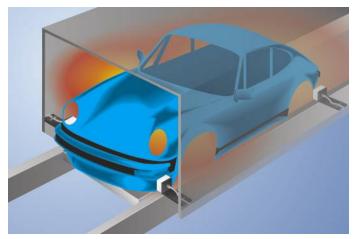
INTT003

Part Number



- Increased system availability thanks to maintenance output
- Long service life of up to 100 000 hours
- Quickly interchangeable sensor head

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 parts. The maintenance function prevents unscheduled system downtime. Thanks to unique, patented technology (DE202011001009), the sensor indicates that it should be replaced during the next scheduled maintenance before its service life expires. Furthermore, the sensor fulfills the DESINA diagnostics function a well.

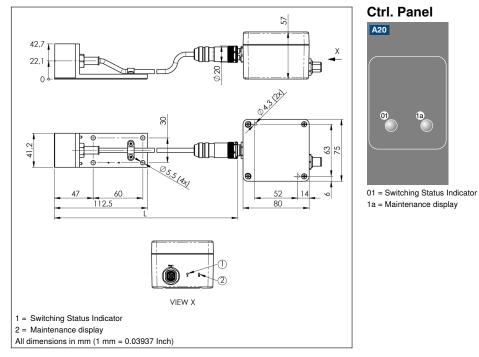


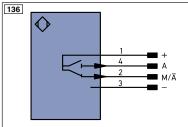
Technical Data

Inductive Data							
Switching Distance	25 mm						
Correction Factors Stainless Steel V2A/CuZn/Al	0,81/0,56/0,52						
Mounting	non-flush						
Mounting A/B/C/D in mm	50/90/50/25						
Switching Hysteresis	< 10 %						
Electrical Data							
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 40 mA						
Switching Frequency	60 Hz						
Temperature Drift	< 10 %						
Sensor head temperature range	-10250 °C						
Temperature Range, Plug on Sensor Head	050 °C						
Analysis module temperature range	050 °C						
Number of Switching Outputs	2						
Switching Output Voltage Drop	< 2,5 V						
Switching Output/Switching Current	100 mA						
Residual Current Switching Output	< 10 mA						
Short Circuit Protection	yes						
Protection Class	III						
Service Life (T = +200 °C)	100000 h						
Service Life (T = +250 °C) 60000 h							
Mechanical Data							
Sensor head material	PTFE (FDA)						
Analysis module material Aluminum							
Degree of protection, sensor head	IP60						
Degree of protection, analysis module	IP67						
Connection	M12 × 1; 4-pin						
Cable Length (L)	5 m						
PWIS-free	yes						
PNP NO/NC antivalent							
Maintenance output							
Connection Diagram No.	136						
Control Panel No.	A20						
Suitable Connection Equipment No.	2						

Inductive Sensors







Legen	d	PŤ	Platinum measuring resistor	ENAR5422	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBR5422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B	
А	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	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	ire 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	
0	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(-)	VT	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	
ENO RS42	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	

Mounting

