Inductive Sensor

for extreme Temperature Ranges

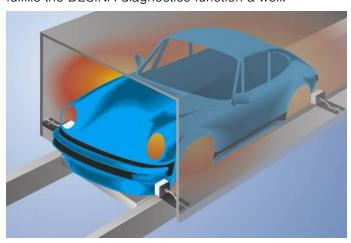
INTT007

Part Number



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

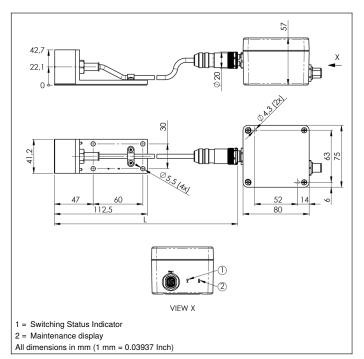
The sensors consist of a sensor head and an analysis module, and are laid out for use in very hot work environments. Together with unparalleled service life in hot surroundings, large switching distances assure maximum system availability. Easily interchangeable sensor heads with numerous standard cable 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

Toominour Butu			
Inductive Data			
Switching Distance	25 mm		
Correction Factors V2A/CuZn/Al	0,81/0,56/0,52		
Mounting	non-flush		
Mounting A/B/C/D in mm	70/90/50/25		
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		
Analysis module temperature range	050 °C		
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		
Reverse Polarity and Overload 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) 10 m			
PWIS-free	yes		
PNP NO/NC antivalent	•		
Maintenance output			
Connection Diagram No.	136		
Control Panel No.	A20		
Suitable Connection Technology No.	2		

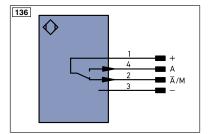




Ctrl. Panel



- 01 = Switching Status Indicator
- 1a = Maintenance display



.egen	10		PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +		nc	not connected	ENB	Encoder B	
-	Supply Voltage 0 V		U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX	
A	Switching Output	(NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In	
V	Contamination/Error Output	(NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT	
V	Contamination/Error Output	(NC)	BZ	Block Discharge	OLT	Brightness output	
Ξ	Input (analog or digital)		AMV	Valve Output	М	Maintenance	
Т	Teach Input		а	Valve Control Output +			
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization		Nire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IE	DIN IEC 757	
TxD	Interface Send Path		S+	Emitter-Line	BK	Black	
RDY	Ready		÷	Grounding	BN	Brown	
GND	Ground		SnR	Switching Distance Reduction	RD	Red	
CL	Clock		Rx+/-	Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow	
•	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet		La	Emitted Light disengageable	BU	Blue	
IN	Safety Input		Mag	Magnet activation	VT	Violet	
OSSD	Safety Output		RES	Input confirmation	GY	Grey	
Signal	Signal Output		EDM	Contactor Monitoring	WH	White	
Bl_D+/- Ethernet Gigabit bidirect. data line (A-D)			ENARS422	Encoder A/Ā (TTL)	PK	Pink	
- Nnesse	Encoder 0-pulse 0-0 (TTL)		ENBRS422	Encoder B/B (TTL)	GNYE	Green/Yellow	

Mounting

