Part Number



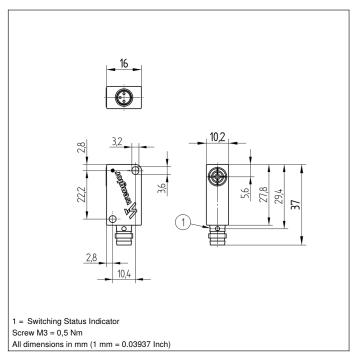
- Increased switching distance
- Innovative ASIC circuit technology
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

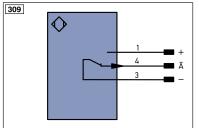
## **Technical Data**

Toominour Butu				
Inductive Data				
Switching Distance	6 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	1,11/0,62/0,61			
Mounting	non-flush			
Mounting A/B/C/D in mm	20/27/18/16			
Mounting B1 in mm	012			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 10 mA			
Switching Frequency	960 Hz			
emperature Drift < 10 %				
Temperature Range	-4080 °C			
Switching Output Voltage Drop < 1 V				
Switching Output/Switching Current	150 mA			
Residual Current Switching Output	Current Switching Output $< 100 \mu A$			
ort Circuit Protection yes				
Reverse Polarity and Overload Protection	yes			
rotection Class III				
Mechanical Data				
Housing Material	Plastic			
Full Encapsulation	yes			
Degree of Protection	IP67			
Connection	M8 × 1; 3-pin			
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	3706,54 a			
Function				
Error Indicator	yes			
NPN NC	•			
Connection Diagram No.	309			
Suitable Connection Equipment No.	8			

Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of several sensors in a very small space, the new generation also provides the possibility of detecting system errors before it's too late thanks to ASIC und wenglor weproTec.







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

