# Inductive Sensor with Increased Switching Distance

**I1BH021** 

Part Number

### weproTec

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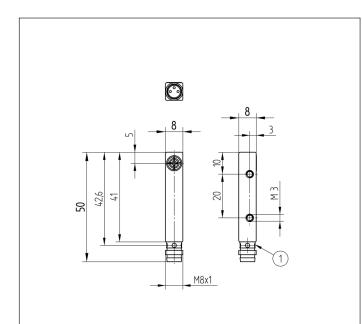
- Increased switching distance
- Innovative ASIC circuit technology
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

## **Technical Data**

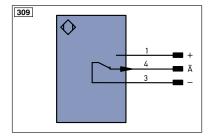
Inductive Data							
Switching Distance	2 mm						
Correction Factors Stainless Steel V2A/CuZn/Al	1,16/0,70/0,67						
Mounting	flush						
Mounting A/B/C/D in mm	0/9/6/0						
Mounting B1 in mm	03						
Switching Hysteresis	< 10 %						
Electrical Data							
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 10 mA						
Switching Frequency	920 Hz						
Temperature Drift	< 10 %						
Temperature Range	-4080 °C						
Switching Output Voltage Drop	< 1 V						
Switching Output/Switching Current	150 mA						
Residual Current Switching Output	< 100 µA						
Short Circuit Protection	yes						
Reverse Polarity and Overload Protection	yes						
Protection Class	ction Class III						
Mechanical Data							
Housing Material	Plastic						
Degree of Protection	IP67						
Connection	M8 × 1; 3-pin						
Safety-relevant Data							
MTTFd (EN ISO 13849-1)	) 3706,54 a						
Diagnostic Coverage (DC)	0 %						
Service Life TM (EN ISO 13849-1)	20 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.





1 = Switching Status Indicator All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d		PŤ	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENв	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
А	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	
V	Contamination/Error Output	(NC)	BZ	Block Discharge	Οιτ	Brightness output
E	Input (analog or digital)		Awv	Valve Output	м	Maintenance
Т	Teach Input		а	Valve Control Output +	rsv	reserved
Z	Time Delay (activation)		b	Valve Control Output 0 V		
S	Shielding		SY	Synchronization	Wire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	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		Orange
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow
۲	<b>IO</b> -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
BI_D+/-	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)		Pink
ENO RS422	Encoder 0-pulse 0-0 (TTL)		ENBR5422	Encoder B/B (TTL)	GNYE	Green/Yellow

# Mounting

