### **Inductive Sensor** with Increased Switching Distance

## **112H058**

Part Number

# 

#### Increased switching distance

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

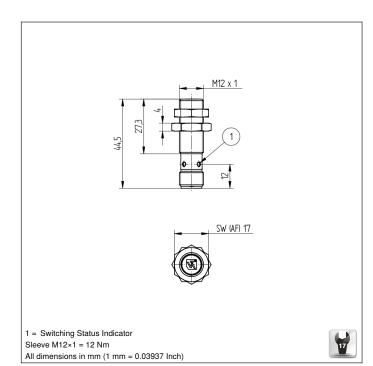
#### **Technical Data**

Inductive Data				
Switching Distance	4 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	1,0/0,55/0,51			
Mounting	flush			
Mounting A/B/C/D in mm	0/8/12/0			
Mounting B1 in mm	02			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 6 mA			
Switching Frequency	1110 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	III			
Mechanical Data				
Housing Material	CuZn, nickel-plated			
Degree of Protection	IP67			
Connection	M12 × 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.	2			
Suitable Mounting Technology No.	170 171			

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.

#### weproTec





L

Legend		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	Synchronization 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	OG	Orange
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow
0	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
	Ethernet Gigabit bidirect. data	a line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

#### Mounting

