## 112N002

Part Number



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

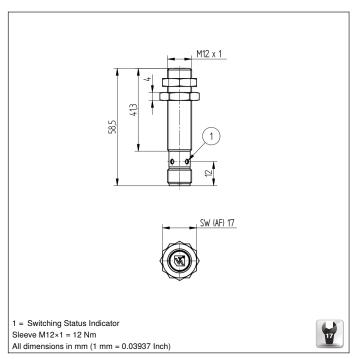
## **Technical Data**

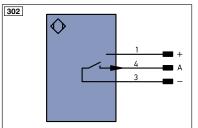
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Inductive Data				
Switching Distance	2 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	1,13/0,64/0,57			
Mounting	flush			
Mounting A/B/C/D in mm	0/8/6/0			
Mounting B1 in mm	01			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 6 mA			
Switching Frequency	1180 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			
everse 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			
Function				
Error Indicator	yes			
NPN NO				
Connection Diagram No.	302			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	170 171			

**wepro**Tec

Inductive Sensors with standard switching distances are distinguished by rugged design, easy installation and reliable measured values. 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	ENARS422	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	ENв	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	
T	Teach Input		AMV	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 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		Pink	
ENors42	2 Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

## Mounting

