I30N006

Part Number



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

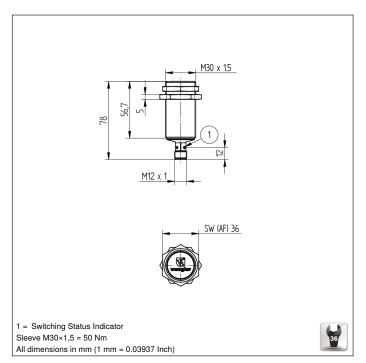
Technical Data

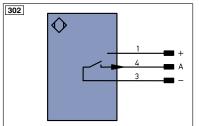
Inductive Data				
Switching Distance	ching Distance 10 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	1,18/0,5/0,46			
Mounting	flush			
Mounting A/B/C/D in mm	0/20/30/0			
Mounting B1 in mm	010			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	,			
Switching Frequency	ing Frequency 580 Hz			
Temperature Drift	< 10 %			
Temperature Range	-4080 °C			
Switching Output Voltage Drop	< 1 V			
Switching Output/Switching Current	ing Output/Switching Current 150 mA			
Residual Current Switching Output	witching Output < 100 μA			
Short Circuit Protection	yes			
Reverse Polarity and Overload Protection	plarity and Overload Protection yes			
Protection Class	III			
Mechanical Data				
Housing Material	CuZn, nickel-plated			
Degree of Protection	IP67			
Connection $M12 \times 1$; 3-pin				
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	(EN ISO 13849-1) 3706,54 a			
Diagnostic Coverage (DC)	Coverage (DC) 0 %			
Service Life TM (EN ISO 13849-1)	20 a			
Function				
Error Indicator	yes			
NPN NO	•			
Connection Diagram No.	302			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	130 131			

weproTec

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.







Legend			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
Α	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
٧		NO)	0-	Ground for the Analog Output	SY OUT	
V		NC)	BZ	Block Discharge	OLT	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 DIN IEC 757	
RxD	Interface Receive Path		E+	Receiver-Line		
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
②	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
BI_D+/-	- Ethernet Gigabit bidirect. data I	ine (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
ENors42	2 Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

Mounting

