I30N004

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	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)	< 10 mA		
Switching Frequency	580 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; 4-pin		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	3706,54 a		
Function			
Error Indicator	yes		
PNP NO/NC antivalent	•		
Connection Diagram No.	101		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	130 131		

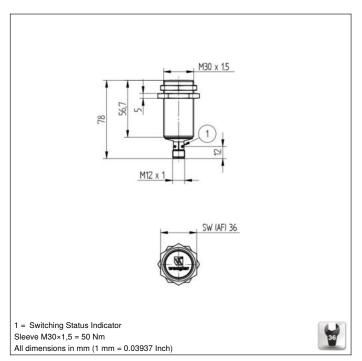
weproTec

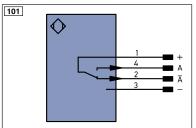
Inductive Sensors with standard switching distances are distinguished by rugged design, easy installation and reliable measured values. In addition to error-free operation of several sensors in a very small space, the new generation also provides the possibility of detecting system errors before it's too late thanks to ASIC und wenglor weproTec.

Complementary Products

PNP-NPN Converter BG2V1P-N-2M







_eger	iu	P.	Т	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +	no	С	not connected	ENBR5422	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		1O) N	/	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (N	1C) N	/ —	Ground for the Trigger Input	Амах	Digital output MAX	
٧	Contamination/Error Output (N	10))	Analog Output	Аок	Digital output OK	
V		,		Ground for the Analog Output	SY In	Synchronization In	
Е	Input (analog or digital)	B	Z	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	A	MV	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	S	Υ	Synchronization	Wire Co	Wire Colors according to DIN IEC 757	
TxD	Interface Send Path	S	Υ-	Ground for the Synchronization	BK	Black	
RDY	Ready	E	+	Receiver-Line	BN	Brown	
GND	Ground	S	+	Emitter-Line	RD	Red	
CL	Clock	+	7	Grounding	OG	Orange	
E/A	Output/Input programmable	Si	nR	Switching Distance Reduction	YE	Yellow	
0	IO-Link	R	x+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet	T	x+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bo	us	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	а	Emitted Light disengageable	GY	Grey	
Signal	Signal Output	м	lag	Magnet activation	WH	White	
BI_D+/-	- Ethernet Gigabit bidirect. data lir			Input confirmation		Pink	
	2 Encoder 0-pulse 0-0 (TTL)			Contactor Monitoring	GNYE	Green/Yellow	

Mounting

