I12H012

Part Number

Technical Data

weproTec



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

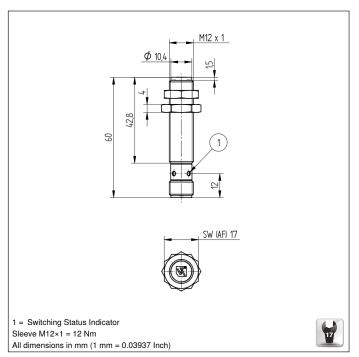
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Inductive Data			
Switching Distance	8 mm		
Correction Factors Stainless Steel V2A/CuZn/Al	1,07/0,47/0,45		
Mounting	semi-flush		
Mounting A/B/C/D in mm	12/26/24/4		
Mounting B1 in mm	010		
Switching Hysteresis	< 10 %		
Electrical Data			
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 14 mA		
Switching Frequency	450 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 Technology No.	2		
Suitable Mounting Technology No.	170 172		

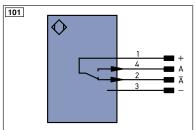
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of 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.

Complementary Products

PNP-NPN Converter BG2V1P-N-2M







.egen	d		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	
A	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	OLT	Brightness output	
E	Input (analog or digital)		Awv	Valve Output	М	Maintenance	
Т	Teach Input		а	Valve Control Output +			
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization		e Colors according to I IEC 757	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IE		
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	
PoF	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 Output		EDM	Contactor Monitoring	WH	White	
	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)	- (/		Encoder B/B (TTL)	GNYE	Green/Yellow	

Mounting

