Inductive Sensor with Increased Switching Distance

112H015

Part Number



weproTec

Inductive Data						
Switching Distance	12 mm					
Correction Factors Stainless Steel V2A/CuZn/Al	1,04/0,54/0,53					
Mounting	non-flush					
Mounting A/B/C/D in mm	20/40/36/14					
Mounting B1 in mm	014					
Switching Hysteresis	< 10 %					
Electrical Data						
Supply Voltage	1030 V DC					
Current Consumption (Ub = 24 V)	< 12 mA					
Switching Frequency	360 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					
Function						
Error Indicator	yes					
PNP NO						
Connection Diagram No.	102					
Suitable Connection Technology No.	2					
Suitable Mounting Technology No.	170 173					

Technical Data

- Increased switching distance
- Innovative ASIC circuit technology

thanks to ASIC und wenglor weproTec.

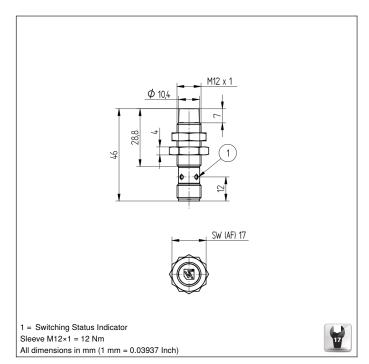
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

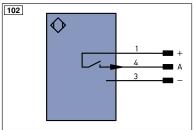
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of several sensors in a very small space, the new generation also provides the possibility of detecting system errors before it's too late

Complementary Products

PNP-NPN Converter BG2V1P-N-2M







Legend PT Platinum measuring resistor ENA Encoder A						
+	Supply Voltage +		Platinum measuring resistor	ENB	Encoder B	
т —	Supply Voltage 0 V	nc U	not connected	AMIN	Digital output MIN	
-	Supply Voltage (AC Voltage)	Ū	Test Input		Digital output MAX	
~		W	Test Input inverted	Амах	Digital output MAX	
A Ā	Switching Output (NO)		Trigger Input	Аок	Synchronization In	
	Switching Output (NC)	0	Analog Output	SY In		
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output		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	a	Valve Control Output +			
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	
۲	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 line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow	

Mounting

