Inductive Sensor with Increased Switching Distance

112H022

Part Number

Increased switching distance

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

Technical Data

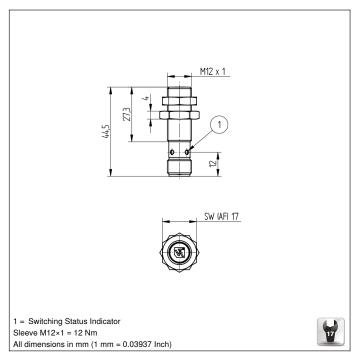
Inductive Data						
Switching Distance	4 mm					
Correction Factors Stainless Steel V2A/CuZn/Al	1,0/0,55/0,51					
Mounting	flush					
Mounting A/B/C/D in mm	0/8/12/0					
Mounting B1 in mm	02					
Switching Hysteresis	< 10 %					
Electrical Data						
Supply Voltage	1030 V DC					
Current Consumption (Ub = 24 V)	< 6 mA					
Switching Frequency	1110 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 NC						
Connection Diagram No.	145					
Suitable Connection Equipment No.	2					
Suitable Mounting Technology No.	170 171					

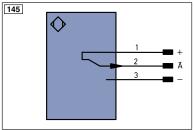
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of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

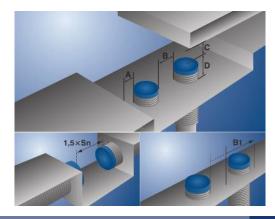






Legend PT Platinum measuring resistor ENArsez Encoder A/Ā (TTL)						
+	Supply Voltage +	nc	not connected	ENBR5422		
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B	
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Амах	Digital output MAX	
V	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	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Ann	Valve Output	017	Brightness output	
Z	Time Delay (activation)	a	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		Black	
RDY	Ready	E+	Receiver-Line		Brown	
GND	Ground	S+	Emitter-Line		Red	
CL	Clock	+	Grounding		Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction		Yellow	
۲	IO-Link		Ethernet Receive Path		Green	
PoF	Power over Ethernet		Ethernet Send Path		Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)		Violet	
OSSD	Safety Output	La	Emitted Light disengageable		Grey	
	Signal Output	Mag	Magnet activation		White	
	Ethernet Gigabit bidirect, data line (A-D)	RES	Input confirmation		Pink	
	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring		Green/Yellow	

Mounting





Specifications are subject to change without notice