Inductive Sensor with Increased Switching Distance

I1DH001

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	6 mm						
Correction Factors Stainless Steel V2A/CuZn/Al	1,27/0,64/0,61						
Mounting	flush						
Mounting A/B/C/D in mm	0/14/18/0						
Mounting B1 in mm	06						
Switching Hysteresis	< 10 %						
Electrical Data							
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 10 mA						
Switching Frequency	910 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 <i>µ</i> A						
Short Circuit Protection	yes						
Reverse Polarity and Overload Protection	yes						
Protection Class	III						
Mechanical Data							
Housing Material	Plastic						
Degree of Protection	IP67/IP68						
Connection	M8 × 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 Equipment No.	8						

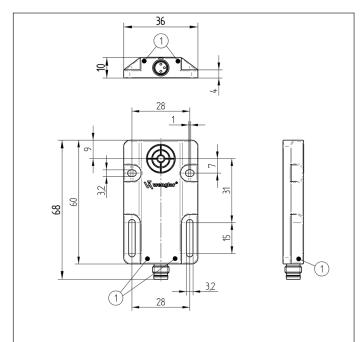
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of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

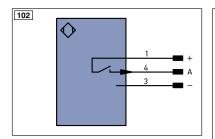
PNP-NPN Converter BG8V1P-N-2M

weproTec





All dimensions in mm (1 mm = 0.03937 Inch)



Legen	ıd		PT	Platinum measuring resistor	ENAR5422	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	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	ENв	Encoder B	
А	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		(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		Awv	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		SY	Synchronization	Wire Co	re Colors according to DIN IEC 757	
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black	
RDY	Ready		E+	Receiver-Line	BN	Brown	
GND	Ground		S+	Emitter-Line	RD	Red	
CL	Clock		÷	Grounding	OG	Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
0	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output		Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data	line (A-D)	RES	Input confirmation		Pink	
ENg RS422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

Mounting

