Inductive Sensor with Increased Switching Distance

11DH003

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	10 mm					
Correction Factors Stainless Steel V2A/CuZn/Al	1,06/0,56/0,52					
Mounting	non-flush					
Mounting A/B/C/D in mm	72/14/30/10					
Mounting B1 in mm	012					
Switching Hysteresis	< 10 %					
lectrical Data						
Supply Voltage	1030 V DC					
Current Consumption (Ub = 24 V)	< 10 mA					
Switching Frequency	460 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 Technology No.	8					

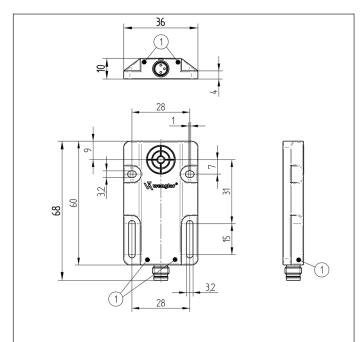
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of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

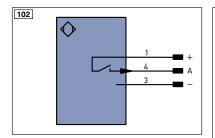
PNP-NPN Converter BG8V1P-N-2M

weproTec



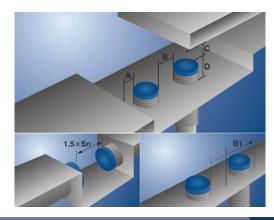


All dimensions in mm (1 mm = 0.03937 Inch)



_egen	d		PŤ	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENв	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
А	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		olors according to
RxD	Interface Receive Path		E+	Receiver-Line	DIN IEC 757	
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	a line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
ENORS42	Encoder 0-pulse 0-0 (TTL)	. /	ENBR5422	Encoder B/B (TTL)	GNYE	Green/Yellow

Mounting





Specifications are subject to change without notice