Inductive Sensor with Increased Switching Distance

I1AH003

Part Number

weproTec

2 mm

flush

0,78/0,45/0,42

the o		

Technical Data Inductive Data Switching Distance

Mounting

Correction Factors Stainless Steel V2A/CuZn/Al

Mounting	flush
Mounting A/B/C/D in mm	0/9/6/0
Mounting B1 in mm	02
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	1030 V DC
Current Consumption (Ub = 24 V)	< 5 mA
Switching Frequency	1120 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	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
Suitable Mounting Technology No.	240

- Increased switching distance
- Innovative ASIC circuit technology

6

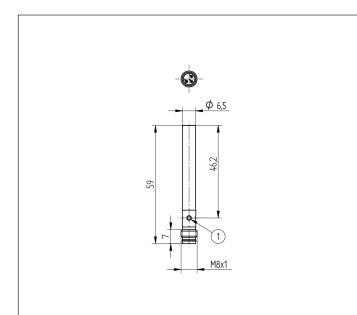
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

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 thanks to ASIC und wenglor weproTec.

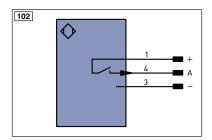
Complementary Products

PNP-NPN Converter BG8V1P-N-2M





1 = Switching Status Indicator Sleeve 6,5 mm dia. = 8 Nm All dimensions in mm (1 mm = 0.03937 Inch)



Legen	ld	PŤ	Platinum measuring resistor	FN	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
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		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		Colors 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 line (A-D)		ENARS422	Encoder A/Ā (TTL)	PK	Pink
ENorsaz Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

Mounting

