Inductive Sensor with Full-Metal Housing

I12G001

Part Number



- Easy sensor configuration using the IO-Link interface
- Increased switching distance
- Innovative ASIC circuit technology
- IO-Link 1.1
- Minimal mounting clearance thanks to wenglor weproTec

The inductive sensors with full-metal housing are suitable for harsh ambient conditions and washdown areas thanks to the 316L stainless steel housing. The sensors with full-metal housing impress with their easy installation and reliable switching behavior. 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, IO-Link interface and wenglor weproTec.

Technical Data

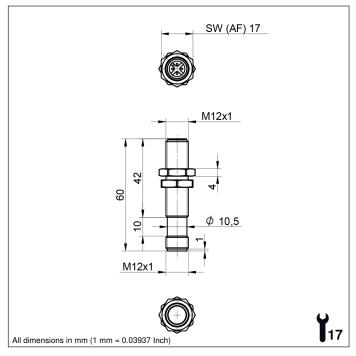
Inductive Data						
Switching Distance	4 mm					
Correction Factors Stainless Steel V2A/CuZn/Al	0,98/0,51/0,48					
Mounting	Flush					
Mounting A/B/C/D in mm	0/12/12/0					
Mounting A/B/C/D (V2A) in mm	0/12/12/0					
Mounting B1 in mm	02					
Installation B1 (V2A) in mm	01					
Switching Hysteresis	< 10 %					
Electrical Data						
Supply Voltage	1030 V DC					
Supply Voltage with IO-Link	1830 V DC					
Current Consumption (Ub = 24 V)	< 15 mA					
Switching Frequency	465 Hz					
Temperature Drift	< 10 %					
Temperature Range	-2570 °C					
Switching Output Voltage Drop	< 1 V					
Switching Output/Switching Current	100 mA					
Residual Current Switching Output	< 100 µA					
Short Circuit Protection	yes					
Reverse Polarity and Overload Protection	yes					
Interface	IO-Link V1.1					
Mechanical Data						
Housing Material	Stainless steel, V4A (1.4404 / 316L)					
Sensing face	Stainless steel, V4A					
Degree of Protection	IP67/IP68/IP69K *					
Connection	M12 × 1; 4-pin					
Torque	max. 25 Nm					
Pressure Resistance Sensor Area	60 bar					
EX II 3D Ex tc IIIC T90° Dc	yes					
EX II 3G Ex ic IIC T5 Gc	yes					
Safety-relevant Data						
MTTFd (EN ISO 13849-1)	3706,54 a					
Packaging unit	1 Piece					
PNP NO						
Connection Diagram No.	227					
Suitable Connection Equipment No.	2					
Suitable Mounting Technology No.	170					

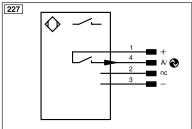
* For applications inside hazarous areas: IP67

Complementary Products IO-Link Master

weproTec







Legend					
+	Supply Voltage +	nc	Not connected	ENBRS422	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
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Amax	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	Amv	Valve Output	Olt	Brightness output
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
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	<u> </u>	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
۲	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	ower 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	PK	Pink
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		

Mounting

