Pressure Sensor with IO-Link

FX9P002

Part Number

weFlux² InoxSens



- Compact, laser-welded V4A stainless steel hous-
- Individual parameters configuration via IO-Link 1.1
- Outstanding measuring accuracy: ±0.5%
- Quick sensor replacement thanks to data storage

weFlux² pressure sensors precisely measure the relative pressure of any desired media to an accuracy level of ±0.5%. Depending on application requirements, either two switching outputs or one switching output and one analog output can be selected for the purpose of reading out measured values. Furthermore, weFlux2 pressure sensors offer new dimensions in individual parameters configurability. Sensor parameters, filter and output functions, as well as the unit of measure of the measured values (bar, PSI or Pascal), can be flexibly adjusted.



Technical Data

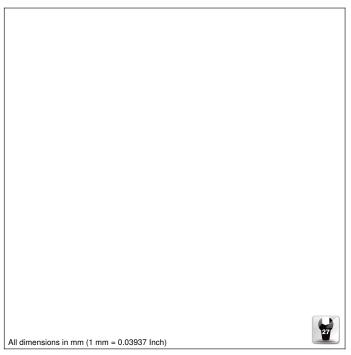
Sensor-specific data			
Measuring Range	0250 bar		
Measurement Type	relative		
Maximum overload pressure	500 bar		
Bursting pressure	750 bar		
Medium	Liquids, gases		
Pressure Response Time (t90)	< 10 ms		
Measuring error (total)	< 1 %		
Temperature Coefficient Zero-Point	<± 0,15% /10K		
Temperature Coefficient Range	<± 0,2% /10K		
Environmental conditions			
Temperature of medium	-25125 °C**		
Ambient temperature	-2580 °C		
Atmospheric humidity	100 % r.H.		
Storage temperature	-2580 °C		
EMC	DIN EN 61326-2-3		
Shock resistance per DIN IEC 68-2-27	50 g / 11 ms		
Vibration resistance per DIN IEC 60068-2-6	10 g (102000 Hz)		
Electrical Data	3(1111)		
Supply Voltage	1232 V DC		
Current Consumption (Ub = 24 V)	< 15 mA		
Number of Switching Outputs	2		
Switching Output/Switching Current	100 mA		
Switching Output Voltage Drop	< 1,5 V		
Analog Outputs	1		
Analog Output	420 mA/010 V		
Current Output Load Resistance	< 500 Ohm		
Voltage output load resistance	> 1 kOhm		
Interface	IO-Link V1.1		
Short Circuit Protection	yes		
Reverse Polarity Protection	yes		
Protection Class	III		
Mechanical Data			
Setting Method	IO-Link		
Sensor element	Stainless steel diaphragm		
Housing Material	1.4404		
Material in contact with media	1.4404; 1.4548; FKN		
Degree of Protection	IP68/IP69K *		
Connection	M12 × 1; 4-pin		
Process Connection	G 1/2"		
{Dichtungsmaterial}	FKM		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	1157,11 a		
Analog Output			
IO-Link	Ŏ		
	139		
Connection Diagram No. Suitable Connection Equipment No.	2		
outable Connection Equipment No.	2		

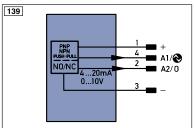
Suitable Mounting Technology No.

903

^{*} Not UL certified ** Sensors suitable up to 125 °C media temperature. During installation, please ensure that the sensor housing is adequately cooled by the surroundings.







_eger	nd	PT	Platinum measuring resistor	ENAR542	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBRS42	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
٧	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	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	Wire Colors according to 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	±	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
•	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	
	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	









