Pressure Sensor with IO-Link

FX0P002

Part Number



- Compact, laser-welded V4A stainless steel housing
- 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.



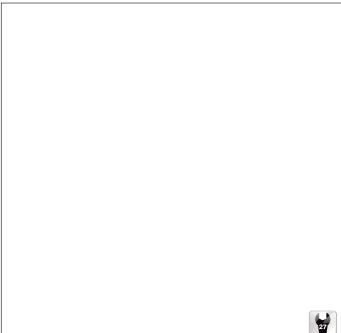
Technical Data

•							
Sensor-specific data							
Measuring Range	0400 bar						
Measurement Type	relative						
Maximum overload pressure	800 bar						
Bursting pressure	1000 bar						
Medium	Liquids, gases						
Pressure Response Time (t90)	< 10 ms						
Measuring error (total)	< 1 %						
Temperature Coefficient Zero-Point	<± 0,15% /10K						
mperature 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	·						
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							
Mechanical Data							
Setting Method	IO-Link						
Sensor element	Stainless steel						
Housing Material	diaphragm 1.4404						
Material in contact with media	1.4404; 1.4548; FKM						
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						
	1137,11 a						
Analog Output							
IO-Link							
Connection Diagram No.	139						
Suitable Connection Equipment No.	2						
Suitable Mounting Technology No.	903						
* Not LIL contified							

* 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.

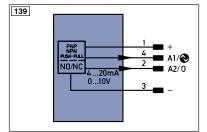
weFlux² InoxSens







All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d		ΡŤ	Platinum measuring resistor	ENARS422	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 (N	O)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (N	C)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
V	Contamination/Error Output (N	0)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output (N	C)	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	
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 lin	e (A-D)	RES	Input confirmation		Pink	
ENers42	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

