Pressure Sensor with IO-Link

FX6P003

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 $\pm 0.5\%$. 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.



weFlux² InoxSens

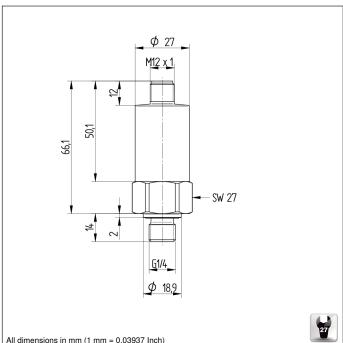
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Technical Dala	
Sensor-specific data	
Measuring Range	-125 bar
Measurement Type	relative
Maximum overload pressure	50 bar
Bursting pressure	75 bar
Medium	Liquids, gases
Pressure Response Time (t90)	< 10 ms
Measuring error (total)	< 1 %
Temperature 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	10 g (102000 112)
Supply Voltage	1232 V DC
	< 15 mA
Current Consumption (Ub = 24 V)	2 15 IIIA
Number of Switching Outputs	
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 diaphragm
Housing Material	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 1/4"
{Dichtungsmaterial}	FKM
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	1157,11 a
Analog Output	
IO-Link	Ă
Connection Diagram No.	139
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	919
* N1-4 1 U	

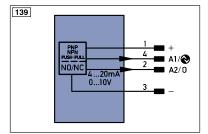
* Not UL certified

** Sensors suitable up to 125 °C media temperature. During installation, please ensure that the sensor housing is adequately cooled by the surroundings.





All dimensions in mm (1 mm = 0.03937 Inch)



Legend PT Platinum measuring resistor ENArsez Encoder A/Ā (TTL)						
			Platinum measuring resistor		Encoder B/B (TTL)	
+	Supply Voltage +	nc	not connected			
-	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	Амах	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	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	lors 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	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	PoE Power over Ethernet		Ethernet Send Path	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)		Violet	
OSSD Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal Output		Mag	Magnet activation		White	
BI_D+/- Ethernet Gigabit bidirect. data line (A-D)		RES	Input confirmation		Pink	
ENorsaz Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

