

Pressure Sensor with IO-Link

FX5P014

Part Number

weFlux² InoxSens



- Compact, laser-welded stainless steel 316L housing
- Individual parameter configuration via IO-Link 1.1
- Precise measuring accuracy: $\pm 0.5\%$
- Quick sensor replacement thanks to data storage

weFlux² pressure sensors precisely measure the relative pressure of any desired media. Depending on application requirements, either two switching outputs or one switching output and one analog output can be selected to output measured values. Furthermore, weFlux² pressure sensors offer new dimensions in individual parameter configurability. Sensor parameters, filter and output functions as well as the unit of measurement of the measured values (bar, PSI or Pascal) can be adjusted as needed.



Technical Data

Sensor-specific data

Measuring Range	-1...10 bar
Measurement Type	relative
Maximum overload pressure	20 bar
Bursting pressure	30 bar
Medium	Liquids, gases
Pressure response time (t ₉₀)	< 10 ms
Measuring error (total)	$\leq \pm 0,5\%$
Hysteresis	$< \pm 0,1\%$
Linearity Deviation	$< \pm 0,5\%$
Zero-point error	$< \pm 0,1\%$
Repeat Accuracy	$< \pm 0,1\%$
Temperature coefficient zero-point	$\leq \pm 0,15\% / 10K$
Temperature coefficient range	$\leq \pm 0,2\% / 10K$

Environmental conditions

Temperature of medium	-40...125 °C**
Ambient temperature	-20...80 °C
Storage temperature	-20...80 °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 (10...2000 Hz)

Electrical Data

Supply Voltage	12...32 V DC
Current Consumption (U _b = 24 V)	< 15 mA
Number of Switching Outputs	2
Switching Output/Switching Current	100 mA
Switching Output Voltage Drop	< 1,5 V
Number of analog outputs	1
Analog Output	4...20 mA
Signal source	Pressure
Resolution	> 11 bit
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

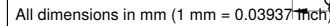
Setting Method	IO-Link
Sensor element	Ceramic membrane
Housing Material	1.4404
Material in contact with media	1.4404; EPDM; ceramic
Degree of Protection	IP65 *
Connection	M12 × 1; 4-pin
Process Connection	7/16-20 UNF
Seal material	EPDM

Safety-relevant Data

MTTFd (EN ISO 13849-1)	1157,11 a
Analog Output	●
PNP NO	●
IO-Link	●
Connection Diagram No.	139
Suitable Connection Equipment No.	2

* Not UL certified

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



Legend