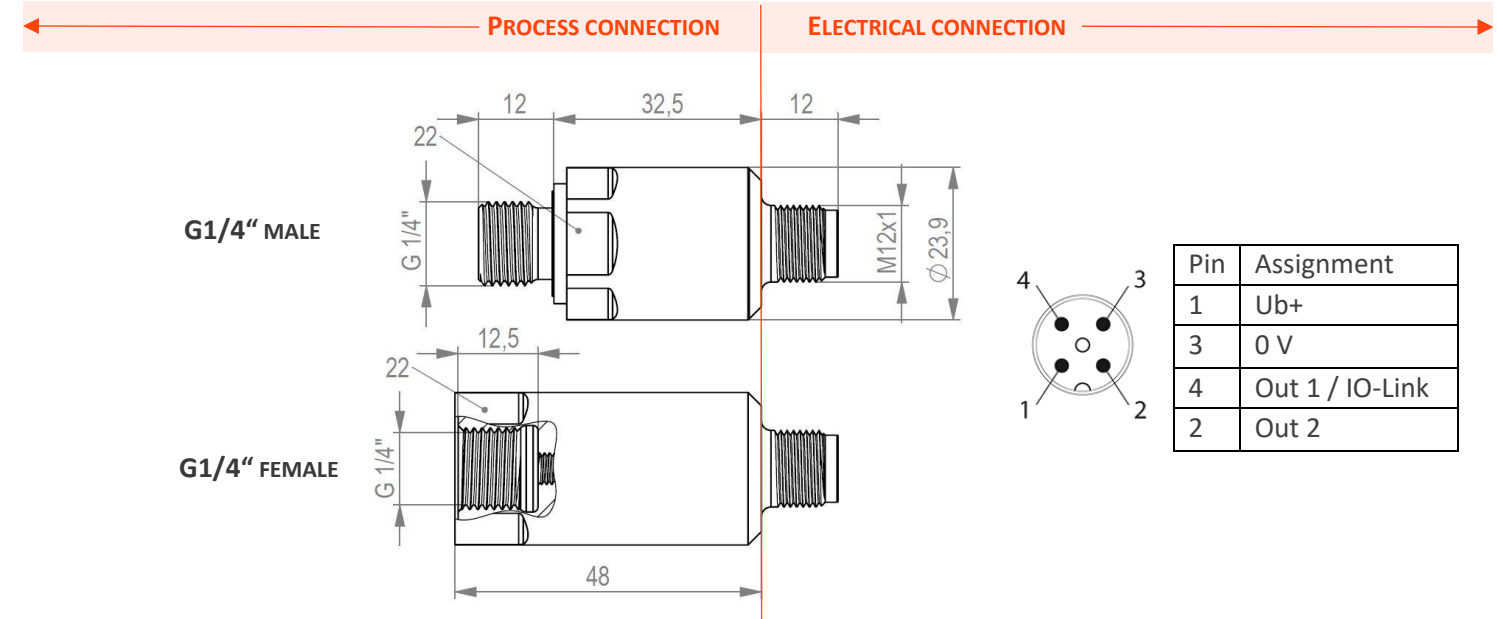


DATA SHEET | ENGLISH



One of the smallest sensors with a ceramic measuring cell and yet extremely robust. The housing with protection class IP68 is made of solid stainless steel and designed for continuous industrial use.

2 switching outputs and an IO-Link interface give the sensor maximum functionality and flexibility for the user.



General data	
Protection class rating	IP65 / IP67 / IP68
Protection level	III
Expected lifetime	100 Mio. load changes
Pressure type	relative pressure
Measuring cell type	ceramic

Ordering information	
5 - 20 - X 1 4 X - XXX X XX	
<i>Process connection</i>	<i>Firmware</i>
G1/4" M (male) 1	Standard 00
G1/4" F (female) 5	Customized >00
NPT1/4" M (male) 3	
NPT1/4" F (female) 6	
<i>Sealings</i>	<i>Pressure range*</i>
NBR (=standard) 1	-1...5 bar 005 2
FKM 2	0...10 bar 010 0
EPDM 3	0...16 bar 016 0
	0...25 bar 025 0
	0...40 bar 040 0
	0...100 bar 100 0
	0...250 bar 250 0
	0...400 bar 400 0
	0...600 bar 600 0

\*more pressure ranges available on request

Electrical data	
Electrical connection	Connector M12x1, 4-pole
Operating voltage	9...30 VDC
Current consumption [Ub]	< 30 mA
Short-circuit / reverse polarity prot.	yes / yes
Output	
Out 1 (Pin 4)	PNP/NPN/PP or IO-Link
Out 2 (Pin 2)	PNP/NPN/PP
Max. output current	max. 200 mA per output
Output voltage	Ub - 2.0V
Response time	< 3 ms
Accuracy	
Total accuracy (23°C)	± 0.5% FS (LP)
max. temperature error (-25...+80°C)	± 1.5% FS (<100bar); ± 2.5% (≥100bar)
Long-term drift	≤ 0.1% FS / a
Repetition accuracy	0.1% FS
Programming options	
Outputs	Switching/re-switching points; hysteresis/window mode; normally closed/ normally open contact; switch-on/switch-off delay
Measuring value	Units; Damping
Diagnosis	
Pressure peaks	Counter, adjustable threshold, reset
Counters	Switching operations; load changes; operating hours; starting cycles

Materials (wetted parts)	
Material fluid connection	stainless steel 1.4404
Material measuring cell	ceramic Al <sub>2</sub> O <sub>3</sub> 96%
Material seals	see ordering information
Materials (non-wetted parts)	
Material housing	stainless steel 1.4305
Mechanical data	
Process connections	G1/4" M, G1/4" F
Wrench size pressure connection	22
Weight	68g (G1/4" M); 103g (G1/4" F)
Pressure range	
<b>Measuring range* [bar]</b>	<b>5</b> <b>10</b> <b>16</b> <b>25</b> <b>40</b> <b>100</b> <b>250</b> <b>400</b> <b>600</b>
<b>Overload press.** [bar]</b>	<b>10</b> <b>20</b> <b>40</b> <b>40</b> <b>100</b> <b>150</b> <b>375</b> <b>500</b> <b>750</b>
<b>Burst pressure** [bar]</b>	<b>20</b> <b>35</b> <b>60</b> <b>60</b> <b>140</b> <b>300</b> <b>500</b> <b>650</b> <b>900</b>

\*more measuring ranges available on request  
\*\* increased overload resistance available on request

Operating conditions	
Operating temperature	Operation: -25°...+80°C Fluid: -25°...+100°C Storage: -30°...+85°C
Range of application	Fluid group 2 media only
EMC / interference immunity	EN61000-6-2
EMC / interference emission	EN61000-6-4
Vibration resistance	DIN EN 60068-2-6: 20G, 10-2000 Hz, XYZ
Shock resistance	DIN EN 60068-2-27: 50G, 11ms, XYZ