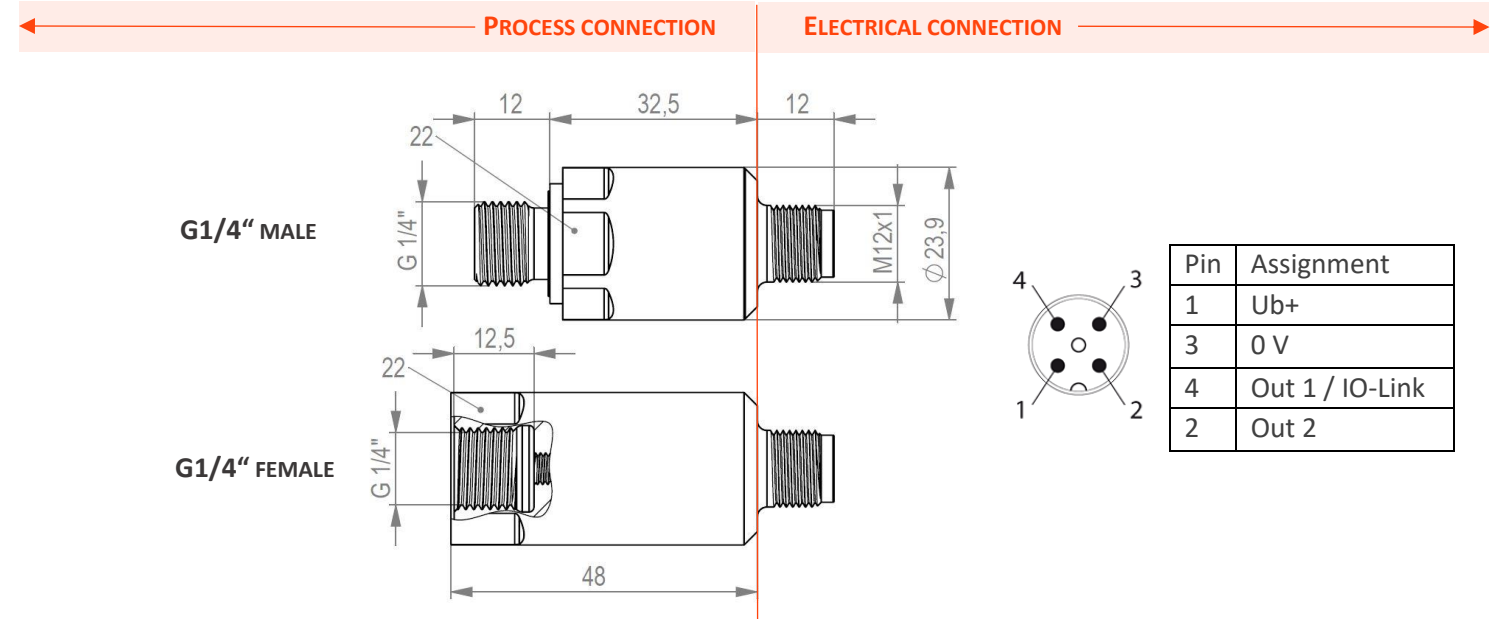


DATA SHEET | ENGLISH



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.



Pin	Assignment
1	Ub+
3	0 V
4	Out 1 / IO-Link
2	Out 2

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 0 XX	
<i>Process connection</i>	<i>Firmware</i>
G1/4" M (male) 1	Standard 00
G1/4" F (female) 5	Customized >00
<i>Pressure range*</i>	
-1...5 bar	005
0...10 bar	010
0...16 bar	016
0...25 bar	025
0...40 bar	040
0...100 bar	100
0...250 bar	250
0...400 bar	400
0...600 bar	600

*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 ₂ O ₃ 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	
Measuring range* [bar]	5 10 16 25 40 100 250 400 600
Overload press.** [bar]	10 20 40 40 100 150 375 500 750
Burst pressure** [bar]	20 35 60 60 140 300 500 650 900

*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