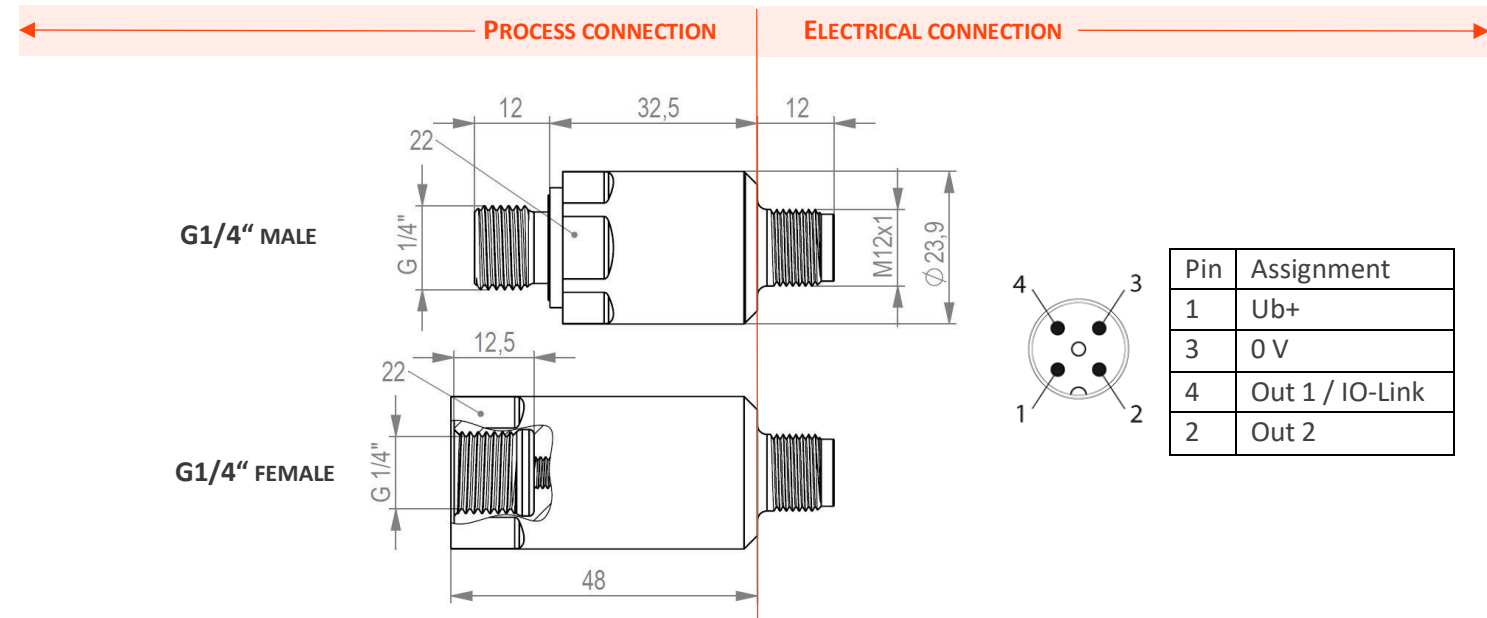


DATA SHEET | ENGLISH



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 X XX

<i>Process connection</i>				<i>Firmware</i>	
G1/4" M (male)	1			Standard	00
G1/4" F (female)	5			Customized	>00
<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 ₂ O ₃ 96%
Material seals	see ordering information

Materials (non-wetted parts)

Material housing	stainless steel 1.4305
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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