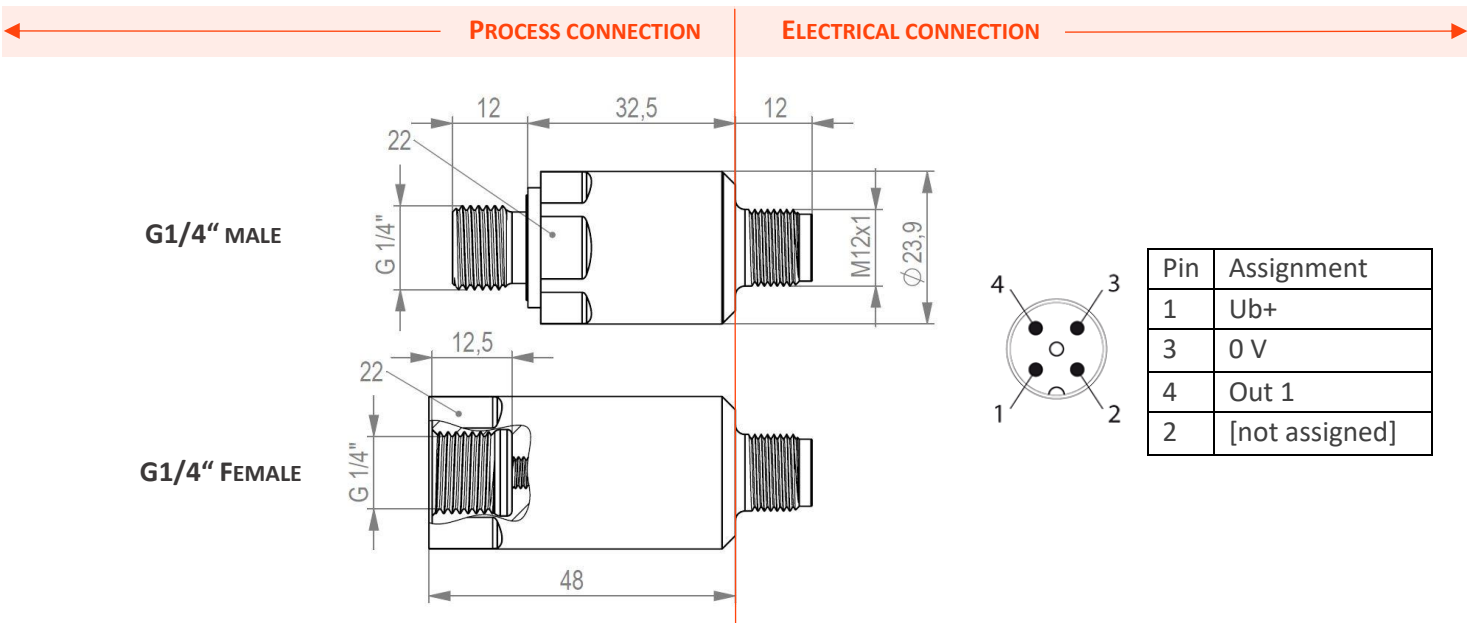


DATA SHEET | ENGLISH



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





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								
MTTF (40°C)	2,236 years (continuous operation)								
Ordering information									
5 - 30 - <u>X</u> 1 <u>X</u> <u>X</u> - <u>XXX</u> <u>X</u> <u>XX</u>									
Process connection G1/4"M (male) 1 G1/4"F (female) 5 NPT1/4"M (male) 3 NPT1/4"F (female) 6 Output signal 0-10V 5 1-10V 6 4-20mA 7 Sealings NBR (=Standard) 1 FKM 2 EPDM 3 Firmware Standard 00 Customized >00 Pressure range* -1...5bar 005 2 0...10 bar 010 0 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									
Mechanical data									
Process connection	G1/4"M, G1/4"F								
Wrench size pressure connection	22								
Weight	68g (G1/4"M); 103g (G1/4"F)								
Electrical data									
Electrical connection	Connector M12x1, 4-pole								
Operating voltage [Ub]	9...30 VDC (13...30 VDC for voltage output)								
Current consumption	< 25 mA								
Short-circuit / reverse polarity prot.	yes / yes								
Output									
Out 1 (Pin 4)	0-10V / 1-10V / 4-20mA								
Min. load resistance (0-10V / 1-10V)	2 kΩ								
Max. load (4-20mA)	500 Ω								
Response time	< 3 ms								
Accuracy									
Total accuracy (23°C)	± 0.5% FSO (GP)								
max. temperature error (-25...+80°C)	± 1.5% FS (<100bar); ± 2.5% (≥100bar)								
Repetition accuracy	± 0.1% FS								
Long-term drift	≤ 0.1% FS / a								
Materials (wetted parts)									
Material fluid connection / housing	stainless steel 1.4404								
Material measuring cell	ceramic Al ₂ O ₃ 96%								
Material seals	see ordering information								
Materials (non-wetted parts)									
Material connector M12	stainless steel 1.4301 / 1.4305								
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
** 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								