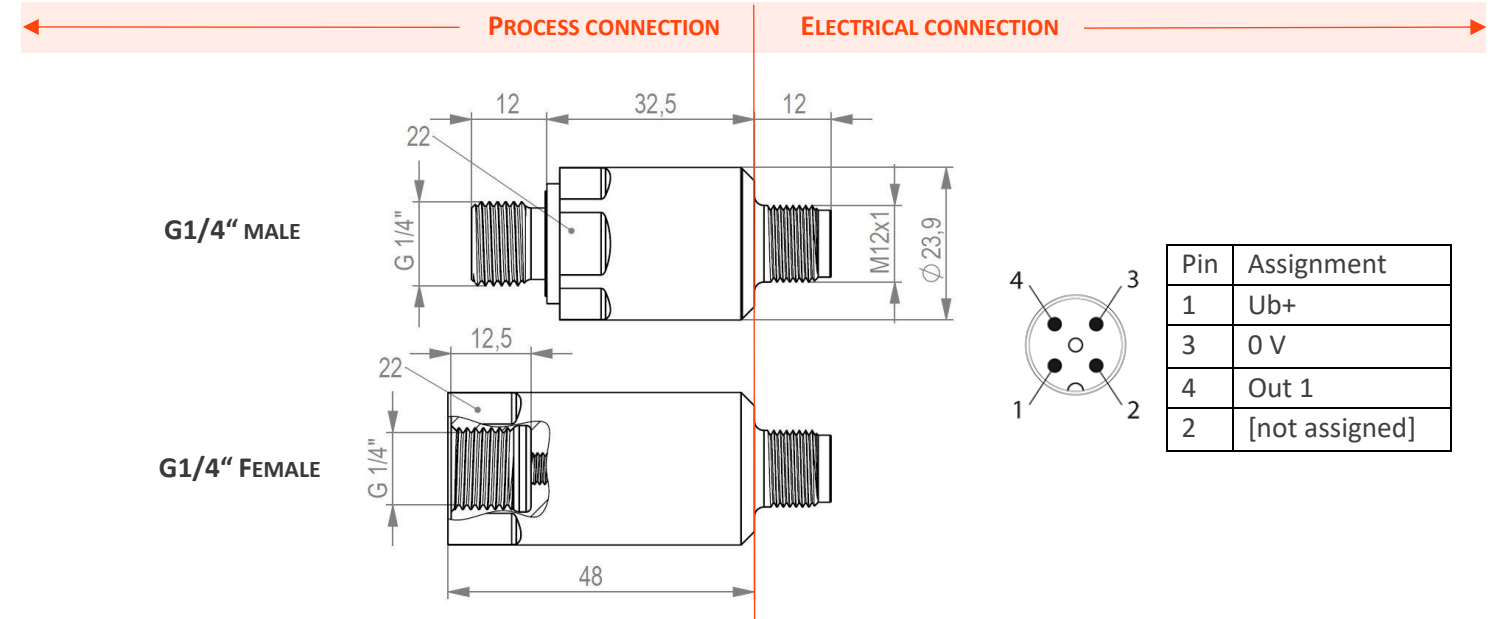


DATA SHEET | ENGLISH



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 - X 1 X X - XXX 0 XX	
<i>Process connection</i>	<i>Firmware</i>
G1/4" M (Außen) 1	Standard 00
G1/4" F (Innen) 5	Kundenspezifisch >00
<i>Output signal</i>	<i>Pressure range*</i>
0-10V 5	-1...5bar 005
1-10V 6	0...10 bar 010
4-20mA 7	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*

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