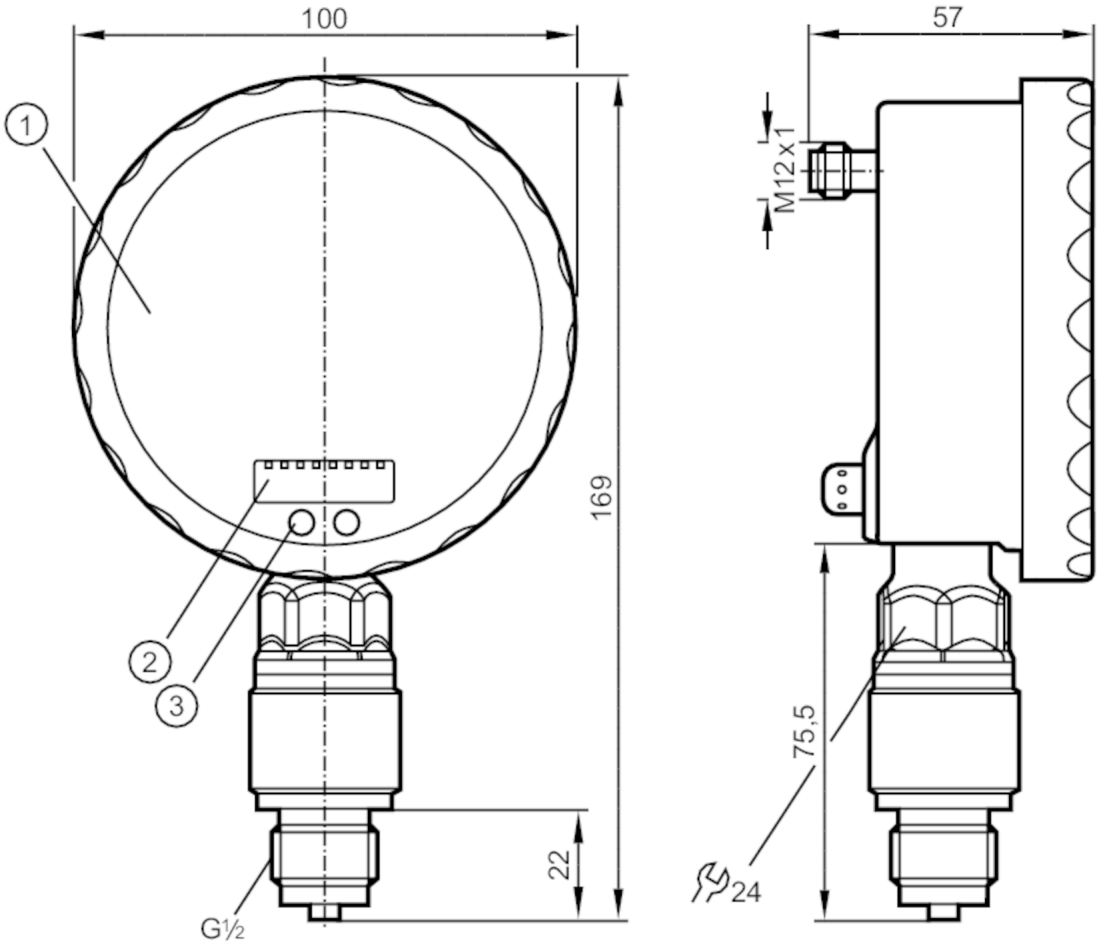
PG2458

Pressure sensor with analogue display

PG-,25BREB12-MFRKG/US/ /P

phase-out article

Alternative articles: PG1408
When selecting an alternative article and accessories please note that technical data may differ!



1 analogue display
2 alphanumeric display 4-digit
3 sensor field (programming button)

Product characteristics				
Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1			
Measuring range	-0.0125...0.25 bar	-12.5...250 mbar	-5...100.4 inH2O	
Process connection	threaded connection G 1/2 external thread			
Application				
Special feature	Gold-plated contacts			
Application	for industrial applications			
Media	liquids and gases			
Medium temperature [°C]	-25...80			
Min. burst pressure	30000 mbar	12044 inH2O	3 MPa	
Pressure rating	6000 mbar	2400 inH2O	1 MPa	
Type of pressure	relative pressure			

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Electrical data				
Operating voltage	[V]	18...32 DC		
Current consumption	[mA]	< 70; (24 V)		
Min. insulation resistance	[MΩ]	100; (500 V DC)		
Protection class		III		
Reverse polarity protection		yes		
Power-on delay time	[s]	6		
Integrated watchdog		yes		
Inputs / outputs				
Number of inputs and outputs		Number of digital outputs: 1; Number of analogue outputs: 1		
Outputs				
Total number of outputs		2		
Output signal		switching signal; analogue signal; (configurable)		
Electrical design		PNP/NPN		
Number of digital outputs		1		
Output function		normally open / normally closed; (parameterisable)		
Max. voltage drop switching output DC	[V]	2		
Permanent current rating of switching output DC	[mA]	250		
Switching frequency DC	[Hz]	75		
Number of analogue outputs		1		
Analogue current output	[mA]	4...20, invertible; (scalable)		
Max. load	[Ω]	(Ub - 10 V) / 20 mA		
Short-circuit protection		yes		
Type of short-circuit protection		pulsed		
Overload protection		yes		
Measuring/setting range				
Measuring range		-0.0125...0.25 bar	-12.5...250 mbar	-5...100.4 inH2O
Set point SP		-11.5...400 mbar	-4.6...160.6 inH2O	
Reset point rP		-12.5...399 mbar	-5...160.2 inH2O	
Analogue start point		-12.5...337.5 mbar	-5...135.6 inH2O	
Analogue end point		50...400 mbar	20...160.6 inH2O	
In steps of		0.5 mbar	0.2 inH2O	
Accuracy / deviations				
Switch point accuracy	[% of the span]	< ± 0,5; (Turn down 1:1)		
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)		
Characteristics deviation	[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (Turn down 1:1; BFSL = Best Fit Straight Line)		
Hysteresis deviation	[% of the span]	< ± 0,25; (Turn down 1:1)		
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per 6 months)		

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Temperature coefficient zero point [% of the span / 10 K]		< ± 0,2; (0...70 °C)	
Temperature coefficient span [% of the span / 10 K]		< ± 0,2; (0...70 °C)	
Response times			
Response time	[ms]	< 9	
Damping process value dAP	[s]	0.01...30	
Damping for the analogue output dAA	[s]	0.01...30	
Step response time analogue output	[ms]	28	
Operating conditions			
Ambient temperature	[°C]	-20...80	
Storage temperature	[°C]	-40...100	
Protection		IP 67; IP 69K	
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-5 Surge	0,5/1 kV
		EN 61000-4-6 HF conducted	10 V
Shock resistance		DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF	[years]	103	
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight	[g]	563.4	
Dimensions	[mm]	169 x 100 x 57	
Materials		stainless steel (316L/1.4404); PA; FKM; PTFE; viewing glass: laminated safety glass 4 mm	
Materials (wetted parts)		Al2O3 (ceramics); FKM; stainless steel (316L/1.4404)	
Min. pressure cycles		100 million	
Process connection		threaded connection G 1/2 external thread	
Restrictor element integrated		no (can be retrofitted)	
Displays / operating elements			
Display		Display unit	2 x LED, green
		switching status	LED, yellow
		switch points	LED ring, red
		function display	alphanumeric display, red 4-digit
		measured values	analogue display, 0...350° rotatable, pointer not visible when unit disconnected
		measured values	alphanumeric display, red 4-digit
With scale		yes	
Extended display range (max.)		400 mbar	160.6 inH2O
Remarks			
Remarks		switch point accuracy in the extended display range: 1.5 % of the span	

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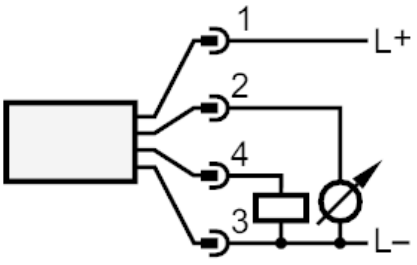
Pack quantity	1 pcs.

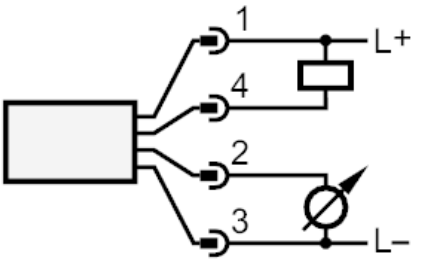
Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection





OUT1	switching output
OUT2	analogue output