

PG2458

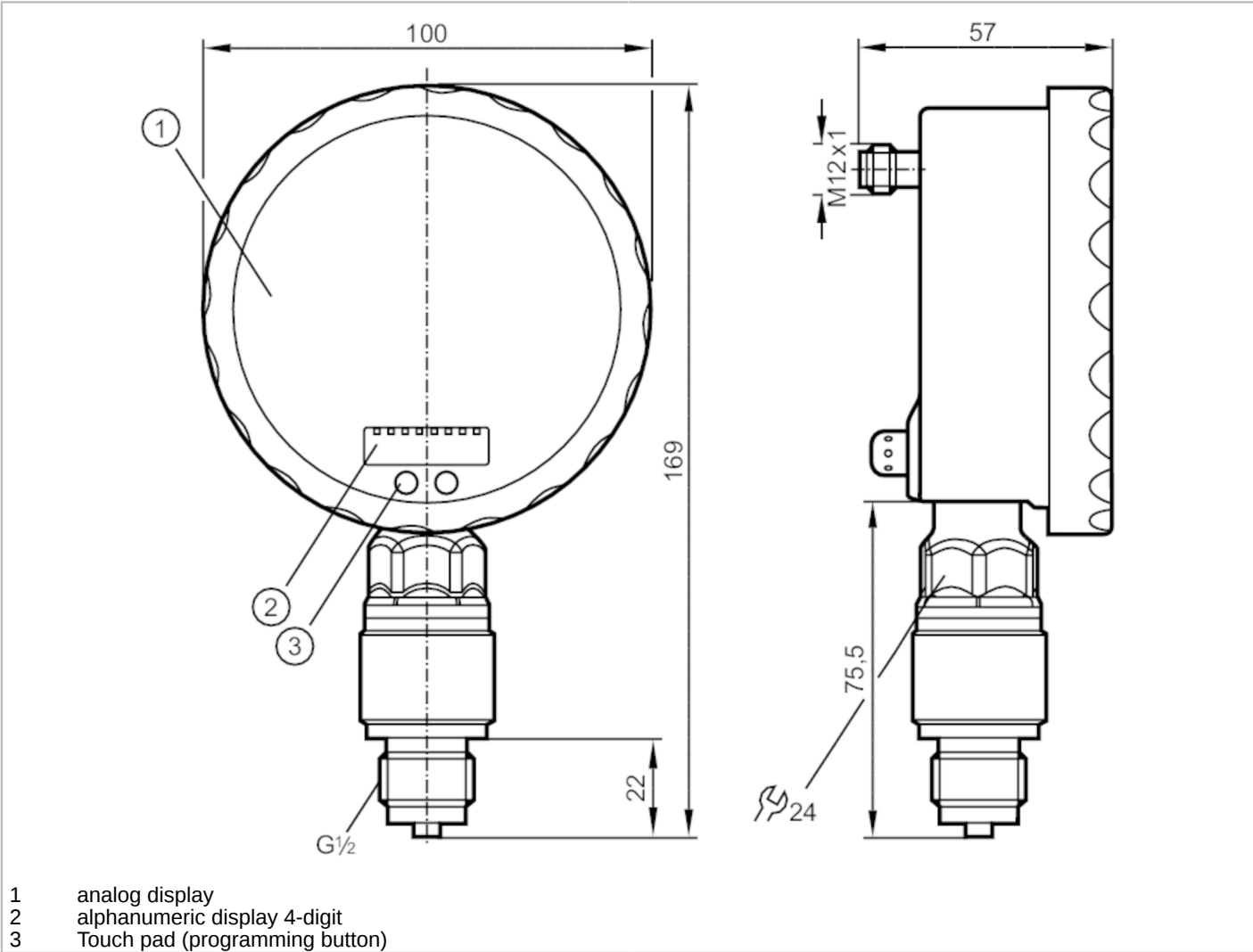


Pressure sensor with analog display

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

Article to be discontinued

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



Product characteristics			
Number of inputs and outputs	Number of digital outputs: 1; Number of analog 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			
System	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		



Pressure sensor with analog display

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

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 analog outputs: 1	
Outputs			
Total number of outputs		2	
Output signal		switching signal; analog signal; (configurable)	
Electrical design		PNP/NPN	
Number of digital outputs		1	
Output function		normally open / closed; (configurable)	
Max. voltage drop switching output DC	[V]	2	
Permanent current rating of switching output DC	[mA]	250	
Switching frequency DC	[Hz]	75	
Number of analog outputs		1	
Analog current output	[mA]	4...20, invertible; (scalable)	
Max. load	[Ω]	(Ub - 10 V) / 20 mA	
Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
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
Analog start point		-12.5...337.5 mbar	-5...135.6 inH2O
Analog end point		50...400 mbar	20...160.6 inH2O
In steps of		0.5 mbar	0.2 inH2O
Accuracy / deviations			
Switch point accuracy		< ± 0,5; (Turn down 1:1)	
	[% of the span]		
Repeatability		< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)	
	[% of the span]		
Characteristics deviation		< ± 0,25 (BFSL) / < ± 0,5 (LS); (Turn down 1:1; BFSL = Best Fit Straight Line)	
	[% of the span]		
Hysteresis deviation		< ± 0,25; (Turn down 1:1)	
	[% of the span]		
Long-term stability		< ± 0,1; (Turn down 1:1; per 6 months)	
	[% of the span]		



Pressure sensor with analog display

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

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)	
Reaction times		
Response time [ms]	< 9	
Damping process value dAP [s]	0.01...30	
Damping for the analog output dAA [s]	0.01...30	
Step response time analog 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	
Material	stainless steel (1.4404 / 316L); PA; FKM; PTFE; viewing glass: laminated safety glass 4 mm	
Materials (wetted parts)	Al2O3 (ceramics); FKM; stainless steel (1.4404 / 316L)	
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	analog 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	

PG2458



Pressure sensor with analog display

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

Pack quantity

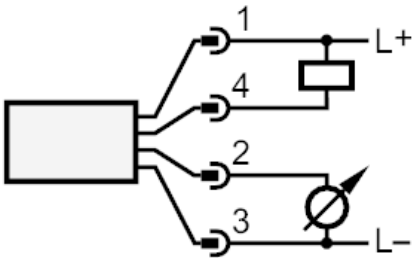
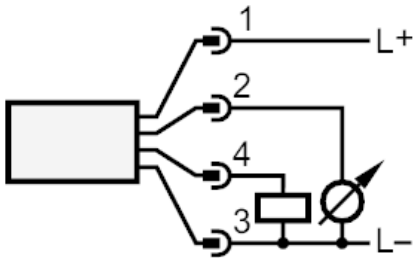
1 pcs.

Electrical connection

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



Connection



OUT1

OUT2

Switching output

analog output