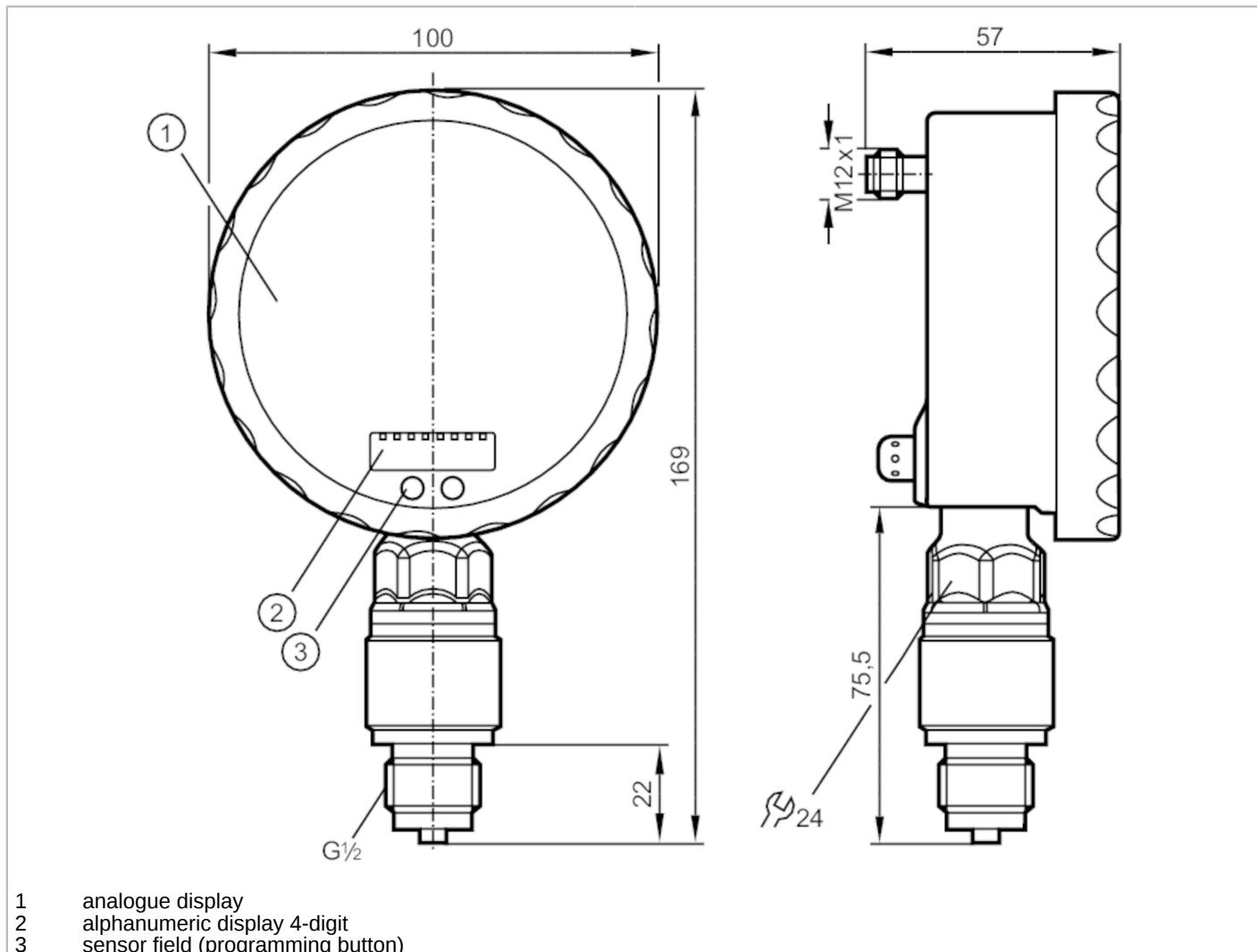


Pressure sensor with analogue display

PG-010-REB12-MFRKG/US/ /P



- 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	-1...10 bar	-14.4...145 psi
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. bursting pressure	150 bar	2175 psi
Pressure rating	50 bar	725 psi
Type of pressure	relative pressure; vacuum	
MAWP (for applications according to CRN)	38 bar	551 psi

Electrical data

Operating voltage [V]	18...32 DC
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Pressure sensor with analogue display

PG-010-REB12-MFRKG/US /P

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		-1...10 bar -14.4...145 psi
Set point SP		-0.96...16 bar -14...232 psi
Reset point rP		-1...15.96 bar -14.4...231.6 psi
Analogue start point		-1...13.5 bar -14.4...195.8 psi
Analogue end point		1.5...16 bar 21.8...232 psi
In steps of		0.02 bar 0.2 psi
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)
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,2; (0...70 °C)

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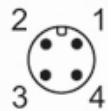
Temperature coefficient span [% of the span / 10 K]	< ± 0,2; (0...70 °C)	
Response times		
Response time [ms]		< 9
Damping process value dAP [s]		0.01...30
Damping for the analogue output dAA [s]		0.01...30
Step response time analogue output [ms]		28
Operating conditions		
Ambient temperature [°C]		-20...80
Storage temperature [°C]		-40...100
Protection		IP 67; IP 69K
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 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]		565.1
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.)	16 bar	232 psi
Remarks		
Remarks	switch point accuracy in the extended display range: 1.5 % of the span	
Pack quantity	1 pcs.	

Pressure sensor with analogue display

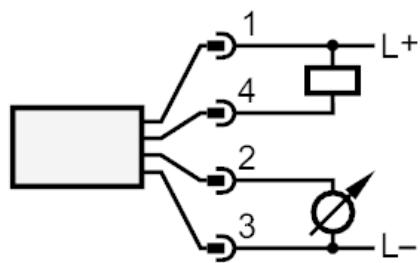
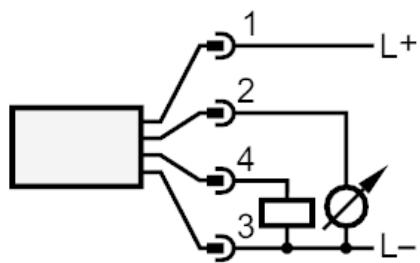
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Electrical connection

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



Connection



OUT1
OUT2

switching output
analogue output