

PF2609

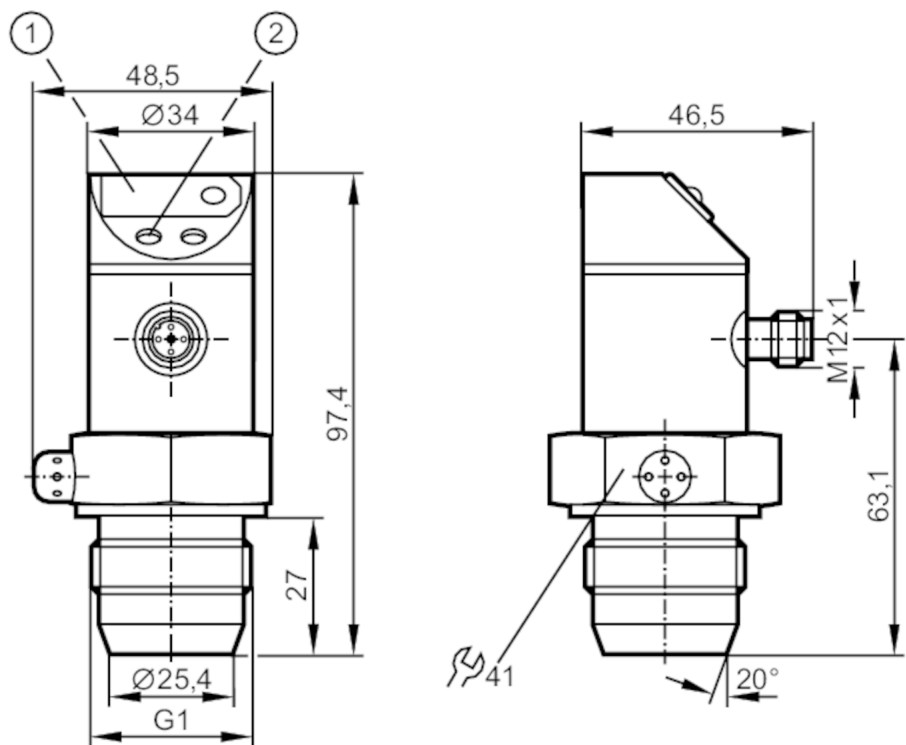


Flush pressure sensor

PF-1-1BREA01-MFRKG/US/ /P

Status Archive

PI2899/PI2799



- 1 7-segment LED display
- 2 programming button



Application			
Application	hygienic systems		
Installation	freely rotatable housing 350°		
Media	viscous media and liquids with suspended particles; liquids and gases		
Medium temperature [°C]	-25...80		
Pressure rating	20 bar	590 inHg	2000 kPa
Min. bursting pressure	50 bar	1475 inHg	5000 kPa
Type of pressure	relative pressure		
No dead space	yes		
Electrical data			
Operating voltage [V]	20...30 DC		
Current consumption [mA]	< 60		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Power-on delay time [s]	0.2		
Integrated watchdog	yes		



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Inputs / outputs			
Number of inputs and outputs		Number of digital outputs: 2; 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		2	
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]		< 170	
Number of analogue outputs		1	
Analogue current output [mA]		4...20; (scalable 1:4)	
Max. load [Ω]		(Ub - 10 V) / 20 mA	
Analogue voltage output [V]		0...10; (scalable 1:4)	
Min. load resistance [Ω]		2000	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Measuring/setting range			
Measuring range		-0.99...1 bar	-30...30 inHg -99...100 kPa
Set point SP		-0.97...1 bar	-29...30 inHg -97...100 kPa
Reset point rP		-0.99...0.98 bar	-30...29 inHg -99...98 kPa
Analogue start point		-0.99...-0.2 bar	-30...-6 inHg -99...-20 kPa
Analogue end point		-0.5...1 bar	-15...30 inHg -50...100 kPa
In steps of		0.01 bar	1 inHg 1 kPa
Factory setting		SP1 = -0.50 bar ASP = -0.99 bar	rP1 = -0.54 bar AEP = 1.00 bar
Accuracy / deviations			
Repeatability [% of the span]		< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)	
Characteristics deviation [% of the span]		< ± 0,6; (Turn down 1:1 linearity, incl. hysteresis and repeatability limit value setting to DIN 16086)	
Linearity deviation [% of the span]		< ± 0,5; (Turn down 1:1)	
Hysteresis deviation [% of the span]		< ± 0,1; (Turn down 1:1)	
Long-term stability [% of the span]		< ± 0,1; (Turn down 1:1; per year)	
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,1; (0...80 °C)	
Temperature coefficient span [% of the span / 10 K]		< ± 0,2; (0...80 °C)	

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Response times		
Response time	[ms]	< 3
Damping for the switching output dAP	[s]	0...4
Damping for the analogue output dAA in steps	[s]	0 - 0,1 - 0,5 - 2
Max. response time analogue output	[ms]	3
Software / programming		
Parameter setting options	hysteresis / window; normally open / normally closed; switching logic; current/voltage output; Damping; adaptation of displayed values; display can be rotated and switched off; Display unit; zero point; span	
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67
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 61000-4-6 HF conducted	10 V
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF	[years]	170
Mechanical data		
Weight	[g]	379.4
Materials	stainless steel (1.4404 / 316L); PBT; PC; PEI; EPDM/X; FKM	
Materials (wetted parts)	ceramics (99.9 % Al2O3); PTFE; stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4	
Min. pressure cycles	100 million	
Process connection	threaded connection G 1 external thread sealing cone	
Displays / operating elements		
Display	switching status	2 x LED, red
	function display	7-segment LED display
	measured values	7-segment LED display
Display unit	bar; inHg; kPa	
Remarks		
Remarks	The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.	
Notes	discontinued article	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		

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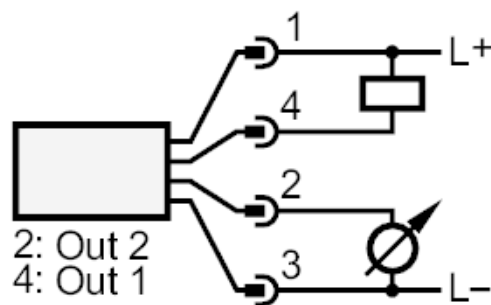
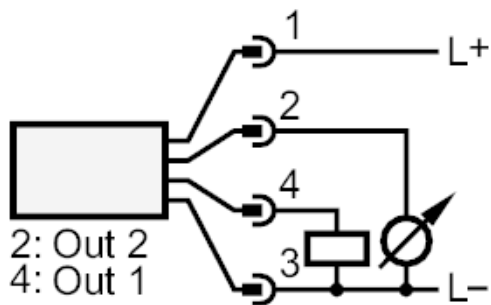
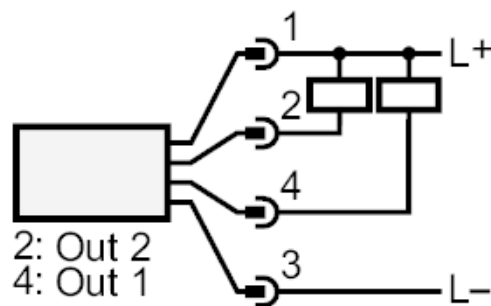
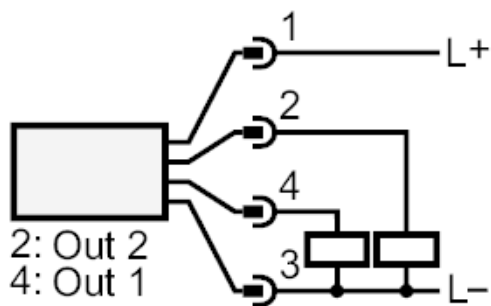


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Connection



OUT1	switching output
OUT2	switching output
	analogue output

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