

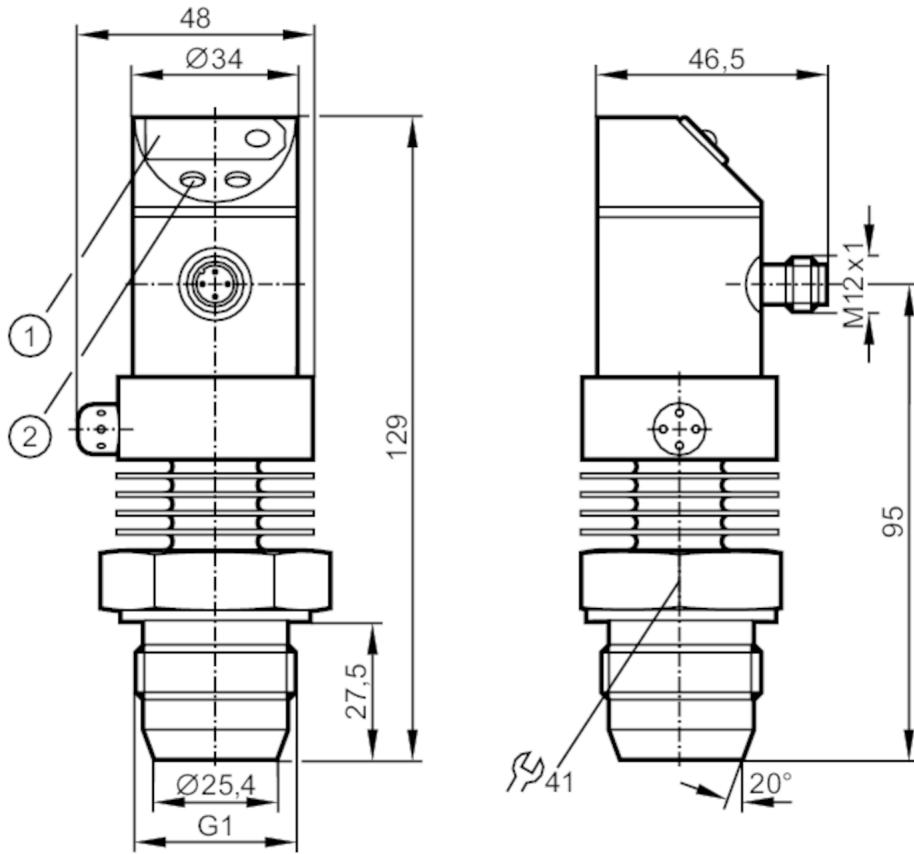
Flush pressure sensor with display

PI-25-REA01-MFRKG/US/ /P

Article no longer available - archive entry

Alternative articles: PI1698

When selecting an alternative article and accessories please note that technical data may differ!



- 1 7-segment LED display
2 programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1		
Measuring range	-13...250 mbar	-5...100 inH2O	-1.3...25 kPa
Process connection	threaded connection G 1 external thread		
Application			
Special feature	Gold-plated contacts		
Application	flush mountable for the food and beverage industry		
Installation	freely rotatable housing 350°		
Media	viscous media and liquids with suspended particles; liquids and gases		
Medium temperature [°C]	-25...125; (145 max. 1h)		
Min. bursting pressure	30000 mbar	12000 inH2O	3000 kPa
Pressure rating	10000 mbar	4000 inH2O	1000 kPa
Type of pressure	relative pressure		
No dead space	yes		

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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	
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	-13...250 mbar	-5...100 inH2O	-1.3...25 kPa
Set point SP	-11...250 mbar	-4...100 inH2O	-1.1...25 kPa
Reset point rP	-12...249 mbar	-4.8...99.6 inH2O	-1.2...24.9 kPa
Analogue start point	-13...188 mbar	-5...74.9 inH2O	-1.3...18.8 kPa
Analogue end point	50...250 mbar	20.1...100 inH2O	5...25 kPa
In steps of	1 mbar	0.1 inH2O	0.1 kPa
Accuracy / deviations			
Repeatability	[X21]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)	
Characteristics deviation	[X21]	< ± 0,6; (Turn down 1:1, linearity, incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)	
Linearity deviation	[X21]	< ± 0,5; (Turn down 1:1)	
Long-term stability	[X21]	< ± 0,1; (Turn down 1:1; per year)	
Temperature coefficient zero point	[X22]	< ± 0,1; (0...80 °C)	
Temperature coefficient span	[X22]	< ± 0,4; (0...80 °C)	

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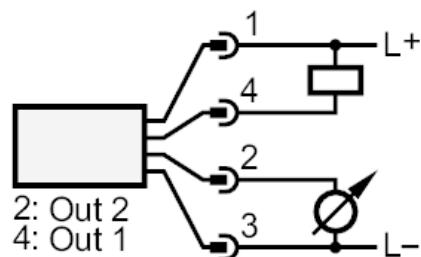
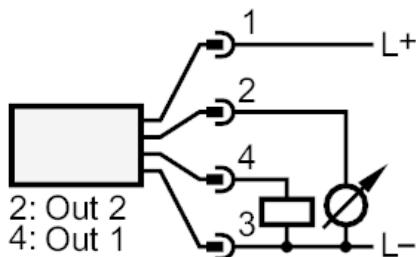
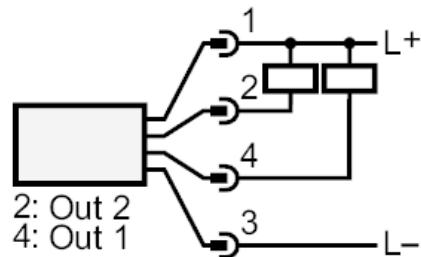
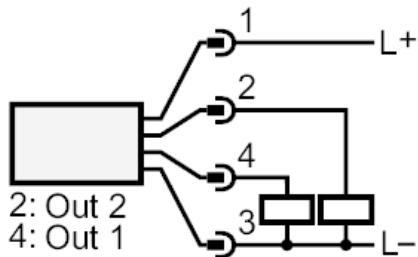
Response times				
Response time	[ms]	< 3		
Damping process value dAP	[s]	0...4		
Damping for the analogue output dAA in steps		0 - 0,1 - 0,5 - 2		
Max. response time analogue output	[ms]	3		
Software / programming				
Parameter setting options		hysteresis / window; normally open / normally closed; switching 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)		
Mechanical data				
Materials		stainless steel (1.4404 / 316L); PBT; PC; PEI; EPDM/X; FKM		
Materials (wetted parts)		stainless steel (1.4404 / 316L); ceramics (99.9 % Al2O3); PTFE		
Min. pressure cycles		100 million		
Process connection		threaded connection G 1 external thread		
Displays / operating elements				
Display	switching status	2 x LED, red		
	function display	7-segment LED display		
	measured values	7-segment LED display		
Display unit		mbar; inH2O; kPa		
Remarks				
Remarks	The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.			
Pack quantity	1 pcs.			
Electrical connection				
Connector: 1 x M12; coding: A; Contacts: gold-plated				



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Connection



OUT1
OUT2

switching output
switching output
analogue output