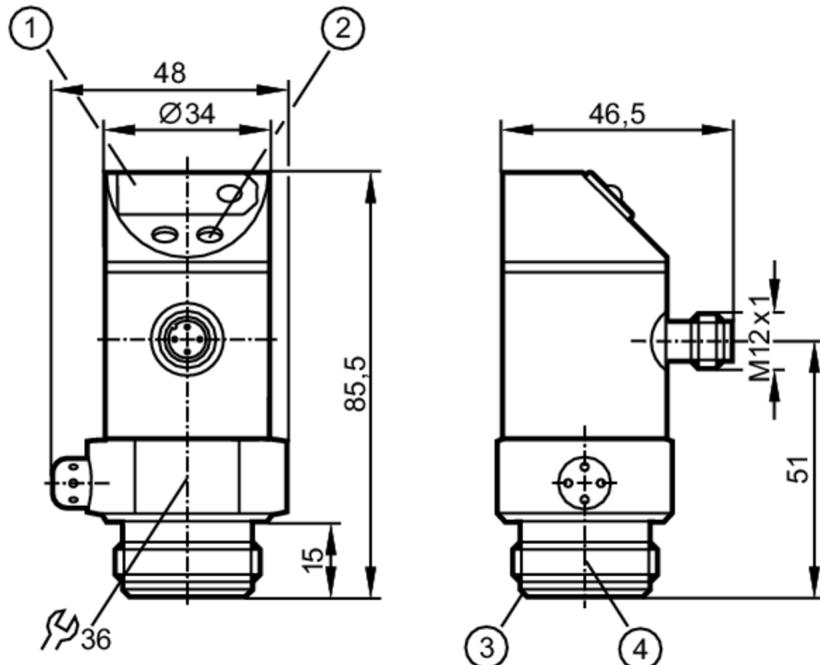


Flush pressure sensor

PF-,25-RES30-MFRKG/US/ /P



- 1 7-segment LED display
- 2 Programming button
- 3 Aseptoflex sealing edge
- 4 Aseptoflex thread



Product characteristics

Output signal	switching signal; analog signal; (configurable)			
Measuring range	-0.013...0.25 bar	-13...250 mbar	-5...100 inH ₂ O	-1.3...25 kPa
Process connection	threaded connection Aseptoflex external thread Aseptoflex			

Application

System	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...80			
Min. bursting pressure	30000 mbar	12000 inH ₂ O	3000 kPa	
Pressure rating	6000 mbar	2400 inH ₂ O	600 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 analog outputs: 1	
Outputs				
Total number of outputs			2	
Output signal			switching signal; analog signal; (configurable)	
Electrical design			PNP/NPN	
Number of digital outputs			2	
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]		< 170	
Number of analog outputs			1	
Analog current output	[mA]		4...20; (scalable 1:4)	
Max. load	[Ω]		(Ub - 10 V) / 20 mA	
Analog voltage output	[V]		0...10; (scalable 1:4)	
Min. load resistance	[Ω]		2000	
Short-circuit protection			yes	
Type of short-circuit protection			yes (non-latching)	
Overload protection			yes	
Measuring/setting range				
Measuring range	-0.013...0.25 bar	-13...250 mbar	-5...100 inH2O	-1.3...25 kPa
Set point SP	-11...250 mbar	-4.4...100 inH2O	-1.1...25 kPa	
Reset point rP	-12...249 mbar	-4.8...99.6 inH2O	-1.2...24.9 kPa	
Analog start point	-13...188 mbar	-5...74.9 inH2O	-1.3...18.8 kPa	
Analog end point	50...250 mbar	20.1...100 inH2O	5...25 kPa	
In steps of	1 mbar	0.1 inH2O	0.1 kPa	
Factory setting		SP1 = 63 mbar	rP1 = 58 mbar	AEP = 250 mbar
		ASP = 0 mbar		
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 EN IEC 62828-1)		
Linearity deviation [% of the span]		< ± 0,5; (Turn down 1:1)		
Hysteresis deviation		< ± 0,1; (Turn down 1:1)		

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[% of the span]		
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]	< ± 0,4; (0...80 °C)
Reaction times		
Response time	[ms]	< 3
Damping for the switching output dAP	[s]	0...4
Damping for the analog output dAA in steps	[s]	0 - 0,1 - 0,5 - 2
Max. response time analog output	[ms]	3
Software / programming		
Parameter setting options		hysteresis / window; normally open / 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]	182
Mechanical data		
Weight	[g]	317
Material		stainless steel (1.4404 / 316L); PBT; PC; PEI; EPDM/X; FKM
Materials (wetted parts)		ceramics (99.9 % Al2O3); stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4; PTFE
Min. pressure cycles		100 million
Process connection		threaded connection Aseptoflex external thread Aseptoflex
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.	

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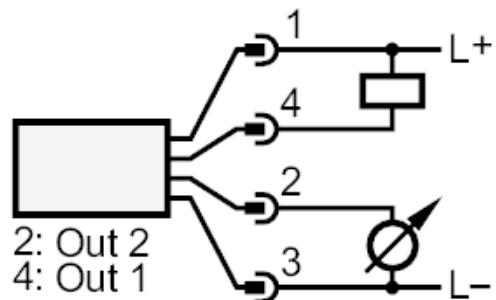
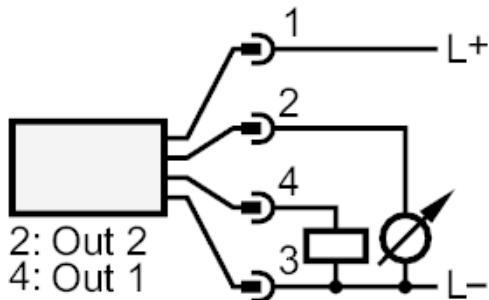
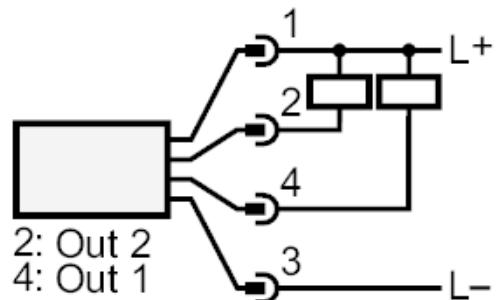
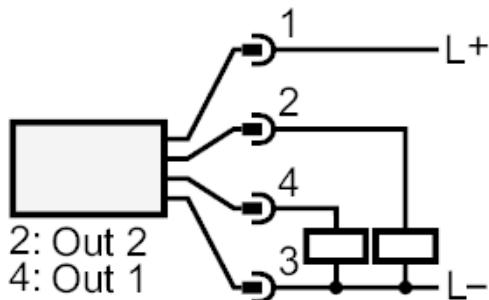
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Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection



OUT1	Switching output
OUT2	Switching output
	analog output