

PF2058



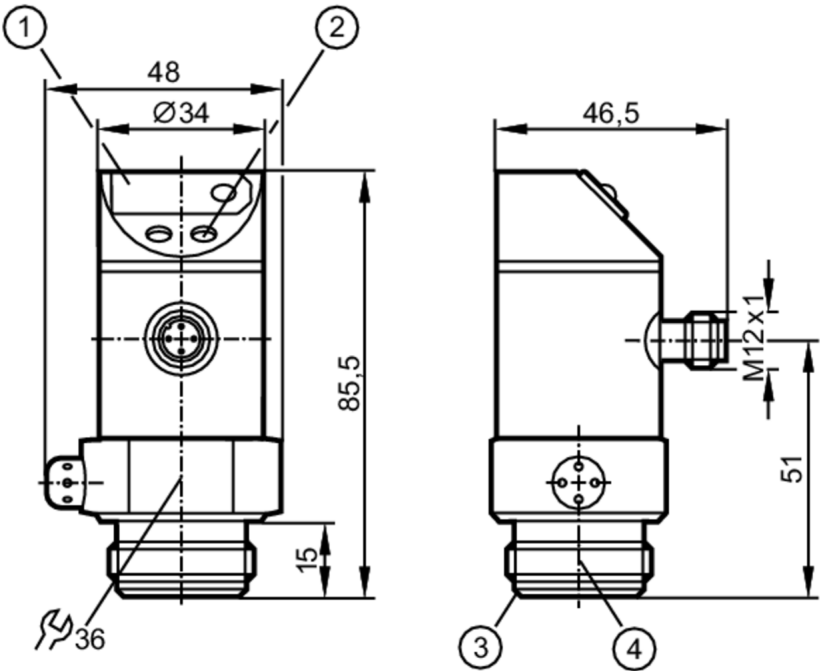
Flush pressure sensor

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

Article to be discontinued
Discontinuation date: 03/31/2024

Alternative articles: PI1008 or PI1708
When selecting an alternative article and accessories please note that technical data may differ!

Please do not use for new projects.
no more adapters available as accessories



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



Product characteristics				
Number of inputs and outputs	Number of digital outputs: 2; Number of analog outputs: 1			
Measuring range	-0.013...0.25 bar	-13...250 mbar	-5...100 inH2O	-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 inH2O	3000 kPa
Pressure rating	6000 mbar	2400 inH2O	600 kPa
Type of pressure	relative pressure		



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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
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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]	(U _b - 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 inH ₂ O	-1.3...25 kPa
Set point SP	-11...250 mbar	-4.4...100 inH ₂ O	-1.1...25 kPa	
Reset point rP	-12...249 mbar	-4.8...99.6 inH ₂ O	-1.2...24.9 kPa	
Analog start point	-13...188 mbar	-5...74.9 inH ₂ O	-1.3...18.8 kPa	
Analog end point	50...250 mbar	20.1...100 inH ₂ O	5...25 kPa	
In steps of	1 mbar	0.1 inH ₂ O	0.1 kPa	
Factory setting		SP1 = 63 mbar	rP1 = 58 mbar	
		ASP = 0 mbar	AEP = 250 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)



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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]	< ± 0,4; (0...80 °C)

Reaction times	
Response time [ms]	< 3
Damping process value 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]	278
Material	stainless steel (1.4404 / 316L); PBT; PC; PEI; EPDM/X; FKM
Materials (wetted parts)	ceramics (99.9 % Al ₂ O ₃); 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; inH ₂ O; kPa

Remarks	
Remarks	The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.
Notes	Please do not use for new projects.; no more adapters available as accessories

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Pack quantity

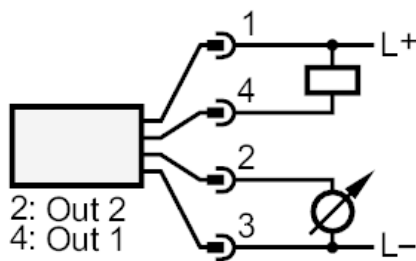
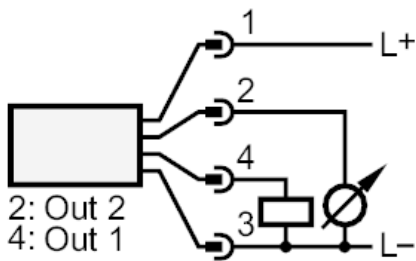
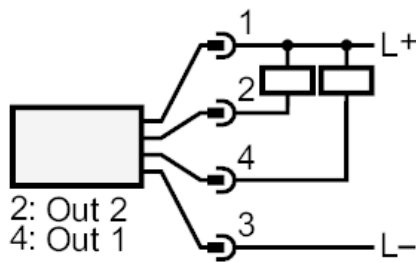
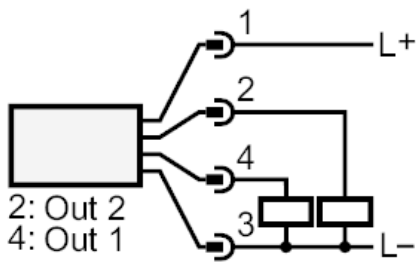
1 pcs.

Electrical connection

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



Connection



OUT1	Switching output
OUT2	Switching output
	analog output