PF2058

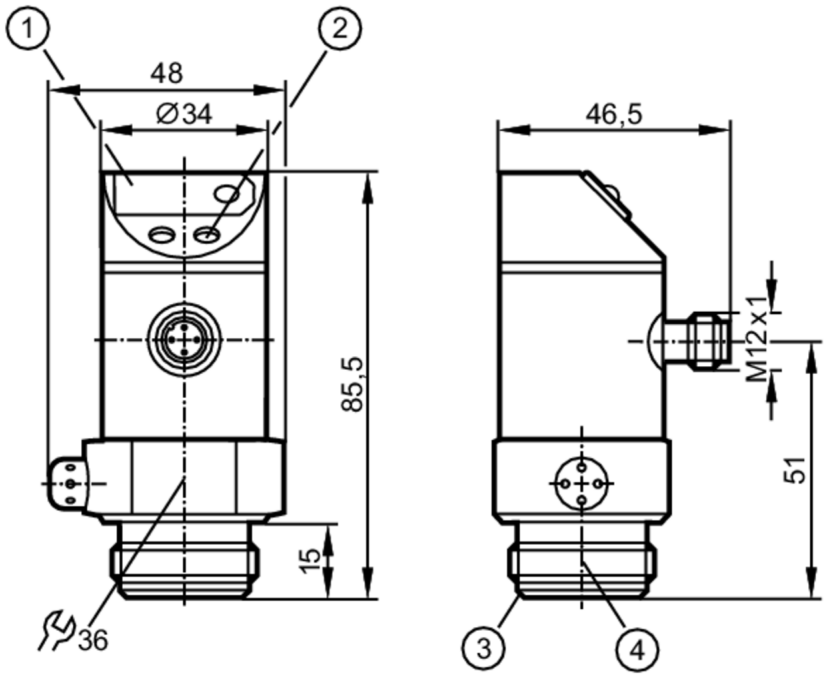
Flush pressure sensor

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

phase-out article

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

EC 1935/2004 FCM CN FCM JP Hygienic Cleanable

Product characteristics				
Number of inputs and outputs	Number of digital outputs: 2; Number of analogue 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			
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...80		
Min. burst pressure	30000 mbar	12000 inH2O	3000 kPa
Pressure rating	6000 mbar	2400 inH2O	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 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	-0.013...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	
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	
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)
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)		
Response times			
Response time [ms]	< 3		
Damping process value 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]	182		
Mechanical data			
Weight [g]	278		
Housing	cylindrical		
Dimensions [mm]	Ø 34 / L = 85.5		
Materials	stainless steel (316L/1.4404); PBT; PC; PEI; EPDM/X; FKM		
Materials (wetted parts)	stainless steel (316L/1.4435) surface characteristics: Ra < 0,4 µm / Rz = 4 µm; ceramics (99.9 % Al2O3); 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		

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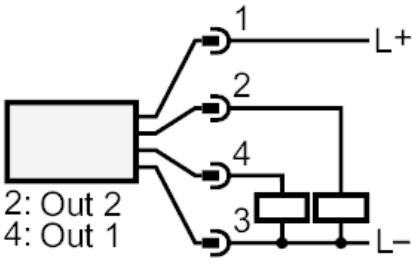
Remarks	
Remarks	The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.
Notes	Please do not use for new projects.; no more adapters available as accessories
Pack quantity	1 pcs.

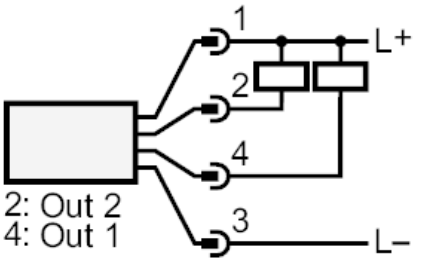
Electrical connection

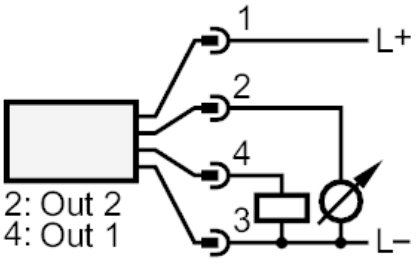
Connector: 1 x M12; coding: A; Contacts: 4, gold-plated

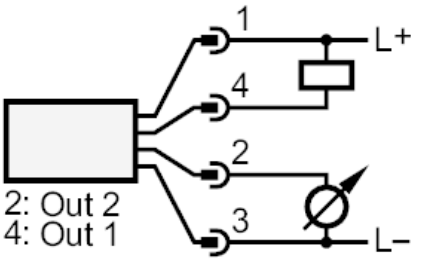


Connection









OUT1	switching output
OUT2	switching output analogue output