



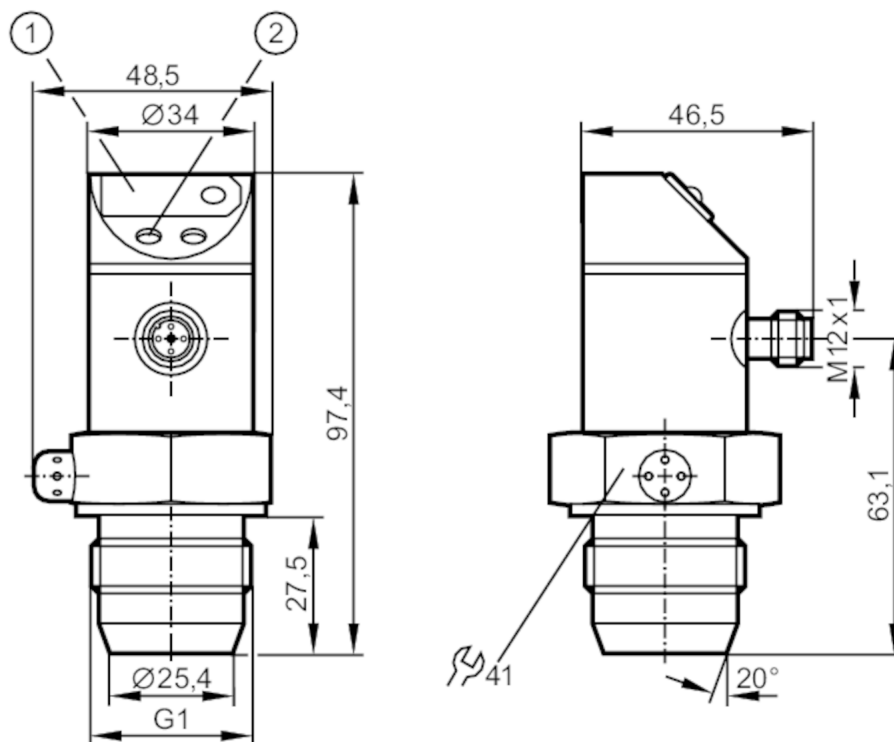
Flush pressure sensor

PF-,25-REA01-MFRKG/US/3D /P

Article no longer available - archive entry

Alternative articles: PI008A

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



- 1 7-segment LED display
- 2 programming button



EHEDG Certified



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]	-20...60		
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		

Electrical data

Operating voltage [V]	20...30 DC
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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
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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 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
Analogue start point	-13...188 mbar	-5...74.9 inH ₂ O	-1.3...18.8 kPa
Analogue 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

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	[% of the span]	< ± 0,1; (Turn down 1:1)
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)

PF008A



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Temperature coefficient zero point [% of the span / 10 K]	< ± 0,1; (0...60 °C)	
Temperature coefficient span [% of the span / 10 K]	< ± 0,4; (0...60 °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]	-20...60	
Storage temperature [°C]	-40...100	
Protection	IP 67	
Tests / approvals		
ATEX marking		
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 (316L/1.4404); PBT; PC; PEI; EPDM/X; FKM	
Materials (wetted parts)	stainless steel (316L/1.4404); ceramics (99.9 % Al2O3); PTFE	
Min. pressure cycles	100 million	
Process connection	threaded connection G 1 external thread	
Displays / operating elements		
Display	switching status	LED, red
	function display	7-segment LED display
	measured values	7-segment LED display
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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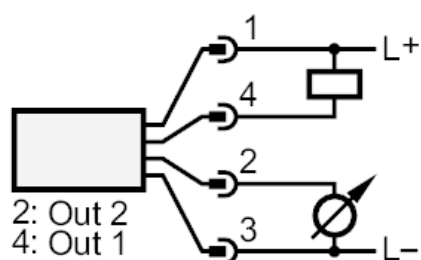
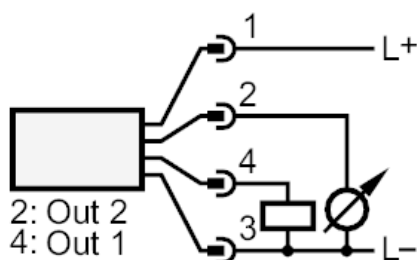
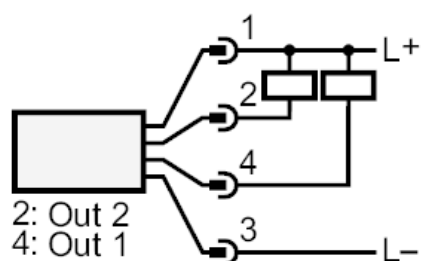
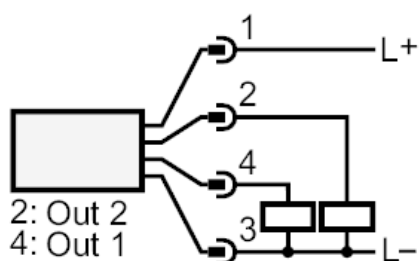
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Electrical connection

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



Connection



OUT1
OUT2

switching output
switching output
analogue output