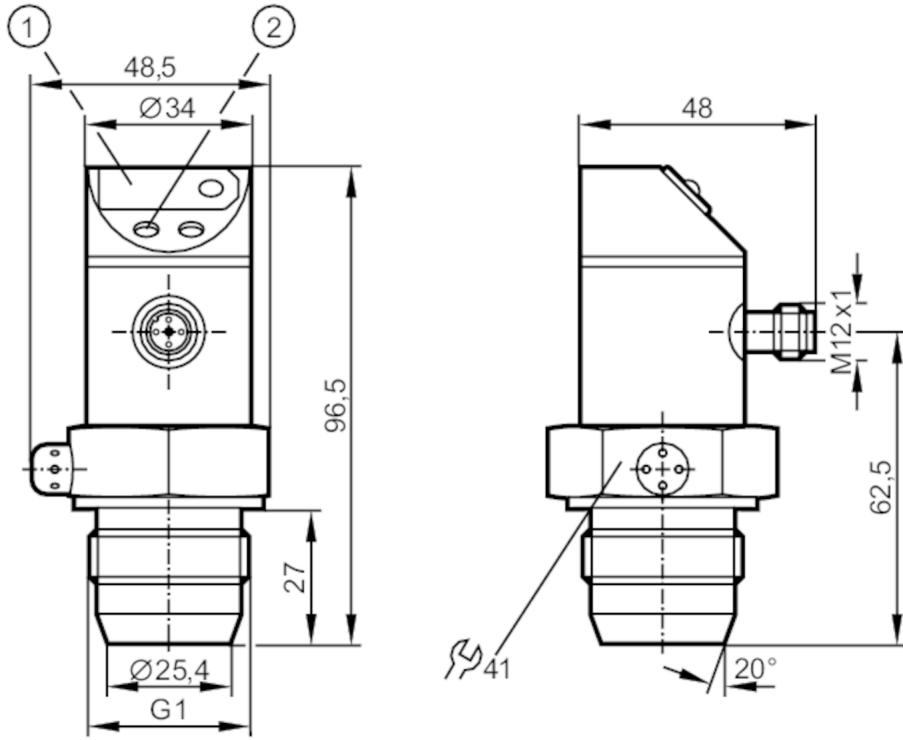


## Flush pressure sensor

PF-1-1-REA01-KFPKG/US/ /P

Article no longer available - archive entry



- 1 7-segment LED display  
2 Programming button

CE

## Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Measuring range [bar]	-1...1
Process connection	threaded connection G 1 external thread

## 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 [bar]	50
Pressure rating [bar]	20
Type of pressure	relative pressure
No dead space	yes

## Electrical data

Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Min. insulation resistance [MΩ]	100; (500 V DC)

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Protection class		III
Reverse polarity protection		yes
Power-on delay time [s]		0.2
Integrated watchdog		yes
<b>Inputs / outputs</b>		
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1
<b>Outputs</b>		
Total number of outputs		2
Output signal		switching signal; analog signal; (configurable)
Electrical design		PNP
Number of digital outputs		1
Max. voltage drop switching output DC [V]		2
Permanent current rating of switching output DC [mA]		250
Number of analog outputs		1
Analog current output [mA]		4...20
Max. load [Ω]		500
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
<b>Measuring/setting range</b>		
Measuring range [bar]		-1...1
Set point SP [bar]		-0.96...1
Reset point rP [bar]		-0.98...0.98
In steps of [bar]		0.02
<b>Accuracy / deviations</b>		
Switch point accuracy [% of the final value]		< ± 1,5
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the final value]		< ± 1,0
Temperature drift per 10 K		< ± 0,3
<b>Reaction times</b>		
Switching frequency for a given set response time of one output	Response time (dAP) [ms]	3 6 10 17 30 60 125 250 500
	Switching frequency [Hz]	170 80 50 30 16 8 4 2 1
Response time [ms]		at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 %
Delay time programmable dS, dr [s]		0, 0,2,...10, 11,...50
Max. response time analog output [ms]		3

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Software / programming				
Adjustment of the switch point		Programming button		
Parameter setting options		hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping		
Operating conditions				
Ambient temperature	[°C]	-25...80		
Storage temperature	[°C]	-40...100		
Protection		IP 67		
Tests / approvals				
EMC	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted	4 kV CD / 8 kV AD 10 V/m 2 kV 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				
Material	stainless steel (1.4404 / 316L); PBT; PC; PA; EPDM/X; FKM			
Materials (wetted parts)	stainless steel (1.4404 / 316L); ceramics; PTFE			
Min. pressure cycles	100 million			
Process connection	threaded connection G 1 external thread			
Displays / operating elements				
Display	Switching status Function display Measured values	LED, red 7-segment LED display 7-segment LED display		
Remarks				
Pack quantity	1 pcs.			
Electrical connection				
Connector: 1 x M12; coding: A; Contacts: gold-plated				



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### Connection

