

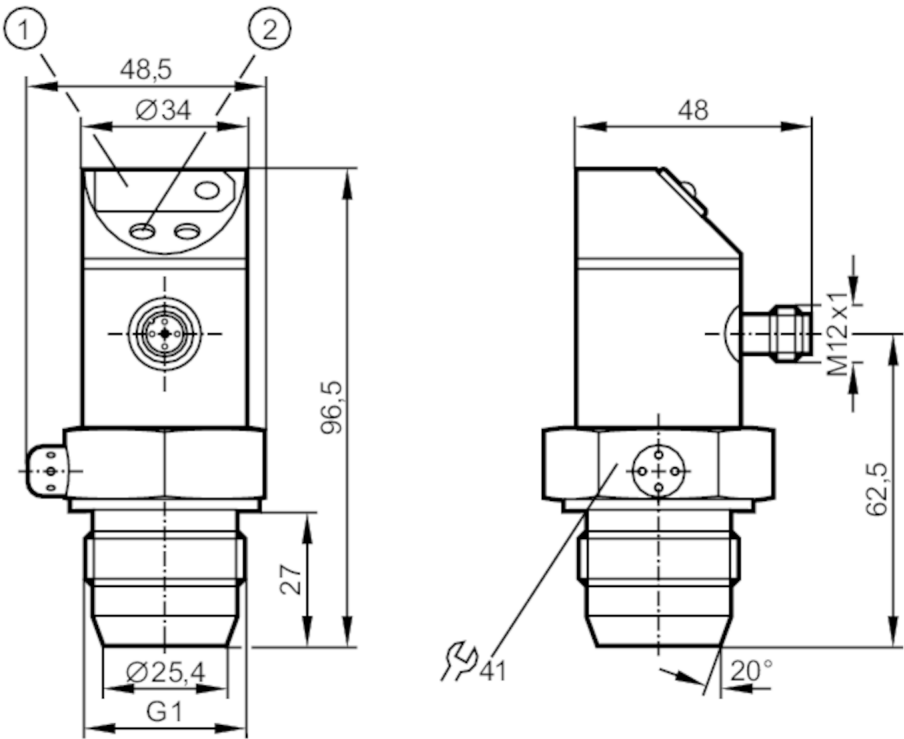


Flush pressure sensor

PF-,25-REA01-KFPKG/US/ /P

Article no longer available - archive entry

Alternative articles: PF2658
When selecting an alternative article and accessories please note that technical data may differ!



- 1 7-segment LED display
- 2 programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
Measuring range [mbar]	0...250
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]	-25...80
Min. bursting pressure [mbar]	30000
Pressure rating [mbar]	10000
Type of pressure	relative pressure
No dead space	yes



Flush pressure sensor

PF-,25-REA01-KFPKG/US/ /P

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: 1; Number of analogue outputs: 1									
Outputs											
Total number of outputs		2									
Output signal		switching signal; analogue 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 analogue outputs		1									
Analogue current output	[mA]	4...20									
Max. load	[Ω]	500									
Short-circuit protection		yes									
Type of short-circuit protection		pulsed									
Overload protection		yes									
Measuring/setting range											
Measuring range	[mbar]	0...250									
Set point SP	[mbar]	2...250									
Reset point rP	[mbar]	1...248									
In steps of	[mbar]	1									
Accuracy / deviations											
Switch point accuracy	[X16]	< ± 1,5									
Repeatability	[X16]	< ± 0,25; (with temperature fluctuations < 10 K)									
Characteristics deviation	[X16]	< ± 1,0									
Temperature drift per 10 K		< ± 0.4									
Response times											
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; switch point (SPx) = 70 %; reset point (rPx) = 30 %									
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50									

PF3658



Flush pressure sensor

PF-,25-REA01-KFPKG/US/ /P

Max. response time analogue output [ms]

3

Software / programming

Adjustment of the switch point

programming button

Parameter setting options

hysteresis / window; normally open / normally 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

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 (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

LED, red

function display

7-segment LED display

measured values

7-segment LED display

Remarks

Pack quantity

1 pcs.

Electrical connection

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



PF3658



Flush pressure sensor

PF-,25-REA01-KFPKG/US/ /P

Connection

