

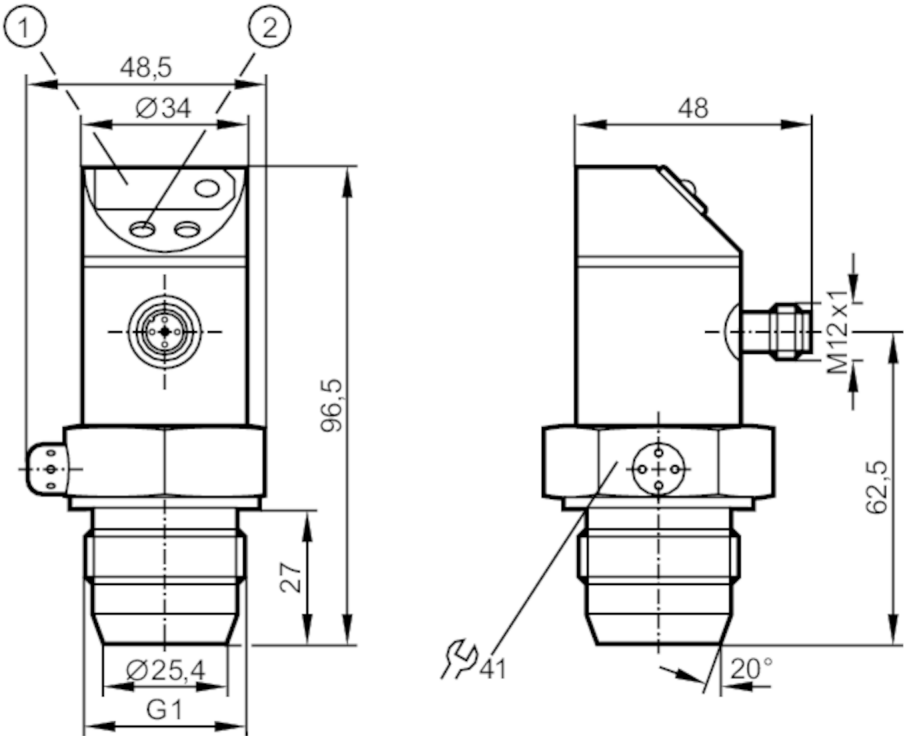
PF7653



Flush pressure sensor

PF-025-REA01-QFPKG/US/ /P

Article no longer available - archive entry



- 1 7-segment LED display
- 2 Programming button



Product characteristics		
Number of inputs and outputs		Number of digital outputs: 2
Measuring range	[bar]	0...25
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]	350
Pressure rating	[bar]	100
Type of pressure		relative pressure
No dead space		yes
Electrical data		
Operating voltage	[V]	18...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									
Inputs / outputs										
Number of inputs and outputs	Number of digital outputs: 2									
Outputs										
Total number of outputs	2									
Output signal	switching signal									
Electrical design	PNP									
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									
Short-circuit protection	yes									
Type of short-circuit protection	yes (non-latching)									
Overload protection	yes									
Measuring/setting range										
Measuring range [bar]	0...25									
Set point SP [bar]	0.2...25									
Reset point rP [bar]	0.1...24.8									
In steps of [bar]	0.1									
Accuracy / deviations										
Switch point accuracy [% of the final value]	< ± 1									
Repeatability [% of the final value]	< ± 0,25; (with temperature fluctuations < 10 K)									
Temperature drift per 10 K	< ± 0.3									
Reaction times										
Switching frequency for a given set response time of one output	Response time [ms] (dAP)	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									
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									

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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

Material	EPDM/X; FKM; PA; PBT; PC; PTFE; stainless steel (1.4404 / 316L)	
Materials (wetted parts)	ceramics; PTFE; stainless steel (1.4404 / 316L)	
Min. pressure cycles	100 million	
Process connection	threaded connection G 1 external thread	

Displays / operating elements

Display	Switching status	2 x LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

