

PF3056



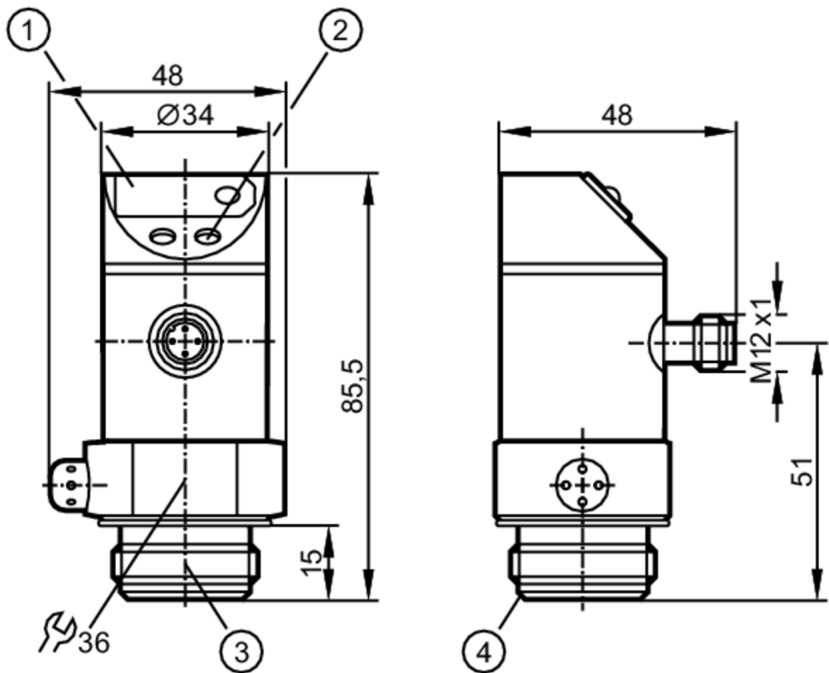
Flush pressure sensor

PF-2,5-RES30-KFPKG/US/ IP

Article no longer available - archive entry

Alternative articles: PF2056

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



- 1 7-segment LED display
- 2 Programming button
- 3 Aseptoflex thread
- 4 Aseptoflex sealing edge



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Measuring range [bar]	0...2.5
Process connection	threaded connection Aseptoflex external thread Aseptoflex
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

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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: 1; Number of analog outputs: 1
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Outputs

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	2
Permanent current rating of switching output DC	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

Measuring/setting range

Measuring range	[bar] 0...2.5
Set point SP	[bar] 0.02...2.5
Reset point rP	[bar] 0.01...2.48
In steps of	[bar] 0.01

Accuracy / deviations

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

Reaction times

Switching frequency for a given set response time of one output	Response time (dAP)	3	6	10	17	30	60	125	250	500
	Switching frequency	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								

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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	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	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 Aseptoflex external thread Aseptoflex

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.
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Electrical connection

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



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Connection

