

PF3154

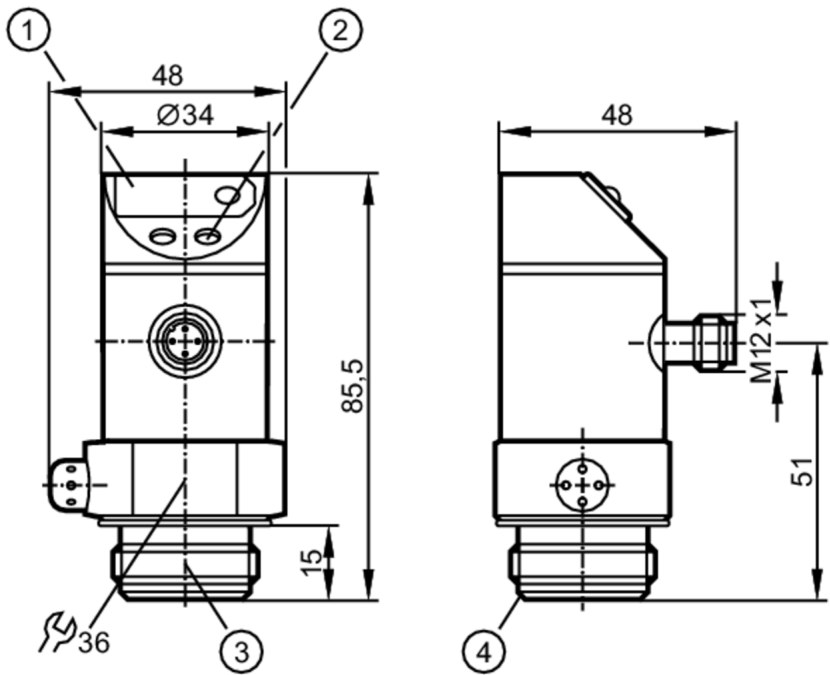


Flush pressure sensor

PF-015PRES30-KFPKG/US/ /P

Article no longer available - archive entry

Alternative articles: PF2054
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 [psi]		
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 [psi]		2000
Pressure rating [psi]		700
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	[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

Measuring/setting range

Measuring range	[psi] 0...150
Set point SP	[psi] 3...150
Reset point rP	[psi] 1...148
In steps of	[psi] 2

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]

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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.

Electrical connection

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



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Connection

