



Flush pressure sensor

PF-001PRES30-KFPKG/US/ /P

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Alternative articles: PF2057

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 analogue outputs: 1
Measuring range [psi]	0...10
Process connection	threaded connection Aseptoflex external thread Aseptoflex

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 [psi]	450
Pressure rating [psi]	150
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 analogue outputs: 1
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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	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	[psi] 0...10
Set point SP	[psi] 0.1...10
Reset point rP	[psi] 0.05...9.95
In steps of	[psi] 0.05

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

Response 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; switch 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 analogue output [ms]

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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 (316L/1.4404); PBT; PC; PA; EPDM/X; FKM

Materials (wetted parts)

stainless steel (316L/1.4404); 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

