

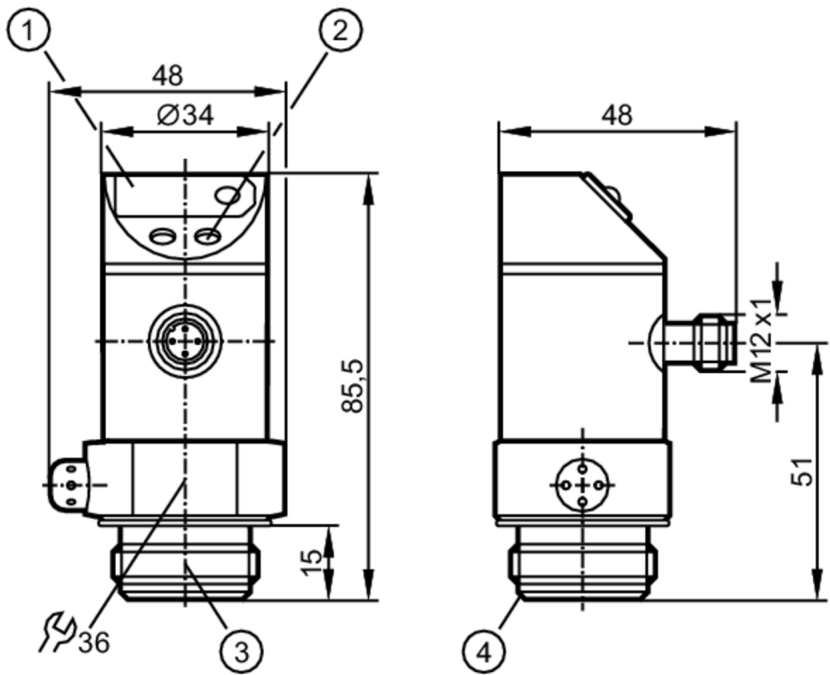


Flush pressure sensor

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 analogue outputs: 1           |
| Measuring range [psi]        | 0...150                                                               |
| 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] | 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 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           | 2                                                 |
| Permanent current rating of switching output DC | 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...150 |
| Set point SP    | [psi] 3...150 |
| Reset point rP  | [psi] 1...148 |
| In steps of     | [psi] 2       |

### Accuracy / deviations

|                                                     |                                                  |
|-----------------------------------------------------|--------------------------------------------------|
| Switch point accuracy<br>[% of the final value]     | < ± 1,5                                          |
| Repeatability<br>[% of the final value]             | < ± 0,25; (with temperature fluctuations < 10 K) |
| Characteristics deviation<br>[% 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                                                                      |    |    |    |    |    |     |     |     |

# PF3154



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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 (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

