

## 

| Product characteristics |  |
| :---: | :---: |
| Number of inputs and outputs | Number of digital outputs: 2 |
| Measuring range | $0 . .100 \mathrm{bar}$ 0... 1450 psi |
| Process connection | threaded connection G 1/4 external thread Internal thread:M5 |
| Application |  |
| Application | for industrial applications |
| Media | liquids and gases |
| Medium temperature [ $\left.{ }^{\circ} \mathrm{C}\right]$ | -25... 80 |
| Min. bursting pressure | 1000 bar $\mid 14500 \mathrm{psi}$ |
| Pressure rating | 200 bar ${ }^{2900} \mathrm{psi}$ |
| Type of pressure | relative pressure |
| Electrical data |  |
| Operating voltage [V] | 9.6... 32 DC |
| Current consumption [mA] | $<25$ |
| Min. insulation resistance $\quad[\mathrm{M} \Omega]$ | 100; (500 V DC) |
| Protection class | III |
| Reverse polarity protection | 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 | complementary |

## Pressure switch with intuitive switch point setting

PK-100-SFG14-HCPKG/USI IW

| Max. voltage drop switching output DC | 2 |
| :---: | :---: |
| Permanent current rating of [mA] switching output DC | 500 |
| Switching frequency DC [Hz] | 100 |
| Short-circuit protection | yes |
| Type of short-circuit protection | yes (non-latching) |
| Overload protection | yes |
| Measuring/setting range |  |
| Measuring range | 0... 100 bar $\quad 0 . .1450 \mathrm{psi}$ |
| Set point SP | 5... 100 bar $75 . .1450 \mathrm{psi}$ |
| Reset point rP | $3 . .98$ bar 50... 1420 psi |
| Accuracy / deviations |  |
| Switch point accuracy [ $\%$ of the final value] | $< \pm 2,5$; (Setting accuracy) |
| Repeatability <br> [\% of the final value] | $< \pm 0,5$; (with temperature fluctuations < 10 K ) |
| Characteristics deviation [\% of the final value] | $< \pm 1,5(\mathrm{BFSL}) /< \pm 2,5(\mathrm{SS}) ;(\mathrm{BFSL}=$ Best Fit Straight Line; LS = limit value setting) |
| Temperature drift per 10 K | $< \pm 0.5$ |
| Software / programming |  |
| Adjustment of the switch point | setting rings |
| Operating conditions |  |
| Ambient temperature $\left[{ }^{\circ} \mathrm{C}\right]$ | -25... 80 |
| Storage temperature [ $\left.{ }^{\circ} \mathrm{C}\right]$ | -40... 100 |
| Protection | IP 67 |
| Tests / approvals |  |
| EMC | DIN EN 61000-6-2 |
|  | DIN EN 61000-6-3 |
| Shock resistance | DIN IEC 68-2-27 50 g (11 ms) |
| Vibration resistance | DIN IEC 68-2-6 $20 \mathrm{~g}(10 . .2000 \mathrm{~Hz})$ |
| MTTF [years] | 450 |
| Pressure equipment directive | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |
| Mechanical data |  |
| Weight [g] | 94 |
| Material | PBT; PC; FKM; stainless steel (1.4404 / 316L) |
| Materials (wetted parts) | stainless steel (1.4404 / 316L); FKM |
| Min. pressure cycles | 50 million |
| Tightening torque [Nm] | 25 |
| Process connection | threaded connection G 1/4 external thread Internal thread:M5 |
| Restrictor element integrated | no (can be retrofitted) |
| Displays / operating elements |  |
| Display | Power LED, green |
|  | Switching status LED, yellow |

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With scale

## Remarks

Pack quantity

## Electrical connection

Connector: $1 \times \mathrm{M} 12$; coding: A


Connection


