



## Pressure switch with intuitive switch point setting

PK-025-SFG14-HCPKG/US/ IW



1 Sealing



### Product characteristics

|                              |                                                              |             |
|------------------------------|--------------------------------------------------------------|-------------|
| Number of inputs and outputs | Number of digital outputs: 2                                 |             |
| Measuring range              | 0...25 bar                                                   | 0...363 psi |
| Process connection           | threaded connection G 1/4 external thread internal thread:M5 |             |

### Application

|                         |                             |          |
|-------------------------|-----------------------------|----------|
| Application             | for industrial applications |          |
| Media                   | liquids and gases           |          |
| Medium temperature [°C] | -25...80                    |          |
| Min. bursting pressure  | 500 bar                     | 7253 psi |
| Pressure rating         | 60 bar                      | 870 psi  |
| Type of pressure        | relative pressure           |          |

### Electrical data

|                                 |                 |  |
|---------------------------------|-----------------|--|
| Operating voltage [V]           | 9.6...32 DC     |  |
| Current consumption [mA]        | < 25            |  |
| Min. insulation resistance [MΩ] | 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    |



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|                                                 |       |                                                                                          |                     |
|-------------------------------------------------|-------|------------------------------------------------------------------------------------------|---------------------|
| Max. voltage drop switching output DC           | [V]   | 2                                                                                        |                     |
| Permanent current rating of switching output DC | [mA]  | 500                                                                                      |                     |
| Switching frequency DC                          | [Hz]  | 100                                                                                      |                     |
| Short-circuit protection                        |       | yes                                                                                      |                     |
| Type of short-circuit protection                |       | pulsed                                                                                   |                     |
| Overload protection                             |       | yes                                                                                      |                     |
| Measuring/setting range                         |       |                                                                                          |                     |
| Measuring range                                 |       | 0...25 bar                                                                               | 0...363 psi         |
| Set point SP                                    |       | 1.25...25 bar                                                                            | 18...363 psi        |
| Reset point rP                                  |       | 0.75...24.5 bar                                                                          | 11...355 psi        |
| Accuracy / deviations                           |       |                                                                                          |                     |
| Switch point accuracy                           | [X16] | < ± 2,5; (Setting accuracy)                                                              |                     |
| Repeatability                                   | [X16] | < ± 0,5; (with temperature fluctuations < 10 K)                                          |                     |
| Characteristics deviation                       | [X16] | < ± 1,5 (BFSL) / < ± 2,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |                     |
| Temperature drift per 10 K                      |       | < ± 0.5                                                                                  |                     |
| Software / programming                          |       |                                                                                          |                     |
| Adjustment of the switch point                  |       | setting rings                                                                            |                     |
| Operating conditions                            |       |                                                                                          |                     |
| Ambient temperature                             | [°C]  | -25...80                                                                                 |                     |
| Storage temperature                             | [°C]  | -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 g (10...2000 Hz) |
| MTTF                                            | [ANN] | 641                                                                                      |                     |
| Pressure Equipment Directive                    |       | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request    |                     |
| Mechanical data                                 |       |                                                                                          |                     |
| Weight                                          | [g]   | 92.5                                                                                     |                     |
| Materials                                       |       | 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                                         |       | operation                                                                                | LED, green          |
|                                                 |       | switching status                                                                         | LED, yellow         |
| With scale                                      |       | yes                                                                                      |                     |

# PK6523



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### Remarks

Pack quantity

1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A



### Connection

