



## Pressure switch with intuitive switch point setting

PK-025-SFG14-PSPKG/US/ /W



1 Sealing



### Product characteristics

|                              |                                                              |             |
|------------------------------|--------------------------------------------------------------|-------------|
| Number of inputs and outputs | Number of digital outputs: 1                                 |             |
| 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: 1 |
|------------------------------|------------------------------|

### Outputs

|                           |                  |
|---------------------------|------------------|
| Total number of outputs   | 1                |
| Output signal             | switching signal |
| Electrical design         | PNP              |
| Number of digital outputs | 1                |
| Output function           | normally open    |



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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            | 0.75...25 bar | 11...363 psi |
| Hysteresis              | 0.5 bar       | 7.2 psi      |

| Accuracy / deviations                               |                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------|
| Switch point accuracy<br>[% of the final value]     | < ± 2,5; (Setting accuracy)                                                              |
| Repeatability<br>[% of the final value]             | < ± 0,5; (with temperature fluctuations < 10 K)                                          |
| Characteristics deviation<br>[% of the final value] | < ± 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 ring |

| 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                         | [years]                                                                               | 771                 |
| 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 (316L/1.4404)                  |
| Materials (wetted parts)      | stainless steel (316L/1.4404); 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 |

# PK5523



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|            |     |
|------------|-----|
| With scale | yes |
|------------|-----|

### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Connector: 1 x M12; coding: A



### Connection

