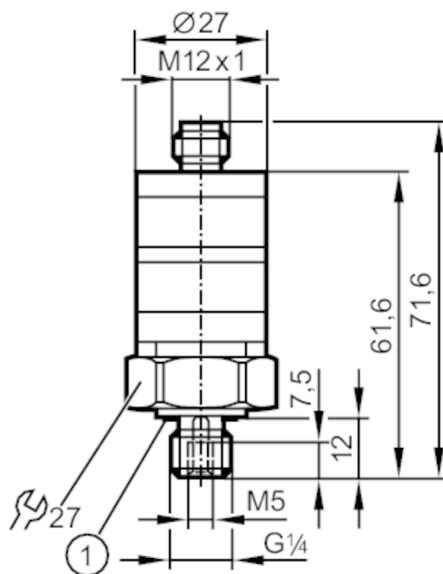


# PK6532



## Pressure switch with intuitive switch point setting

PK-100-SFG14-HCPKG/US/ IW



1 sealing



### Product characteristics

|                              |                                                              |            |
|------------------------------|--------------------------------------------------------------|------------|
| Number of inputs and outputs | Number of digital outputs: 2                                 |            |
| Measuring range              | 0...100 bar                                                  | 0...10 MPa |
| 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. burst pressure     | 1000 bar                    | 100 MPa |
| Pressure rating         | 200 bar                     | 20 MPa  |
| 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                |         | yes (non-latching)                                                                       |                     |
| Overload protection                             |         | yes                                                                                      |                     |
| Measuring/setting range                         |         |                                                                                          |                     |
| Measuring range                                 |         | 0...100 bar                                                                              | 0...10 MPa          |
| Set point SP                                    |         | 5...100 bar                                                                              | 0.5...10 MPa        |
| Reset point rP                                  |         | 3...98 bar                                                                               | 0.3...9.8 MPa       |
| Accuracy / deviations                           |         |                                                                                          |                     |
| Switch point accuracy                           |         | < ± 2,5; (Setting accuracy)                                                              |                     |
| [% of the final value]                          |         |                                                                                          |                     |
| Repeatability                                   |         | < ± 0,5; (with temperature fluctuations < 10 K)                                          |                     |
| [% of the final value]                          |         |                                                                                          |                     |
| Characteristics deviation                       |         | < ± 1,5 (BFSL) / < ± 2,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |                     |
| [% of the final value]                          |         |                                                                                          |                     |
| 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                                            | [years] | 713                                                                                      |                     |
| Pressure equipment directive                    |         | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request    |                     |
| Mechanical data                                 |         |                                                                                          |                     |
| Weight                                          | [g]     | 94.5                                                                                     |                     |
| Housing                                         |         | tubular                                                                                  |                     |
| Dimensions                                      | [mm]    | Ø 27 / L = 71.6                                                                          |                     |
| 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)                                                                  |                     |

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### Displays / operating elements

|            |                  |             |
|------------|------------------|-------------|
| Display    | Power            | LED, green  |
|            | Switching status | LED, yellow |
| With scale |                  | yes         |

### Remarks

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

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



### Connection

