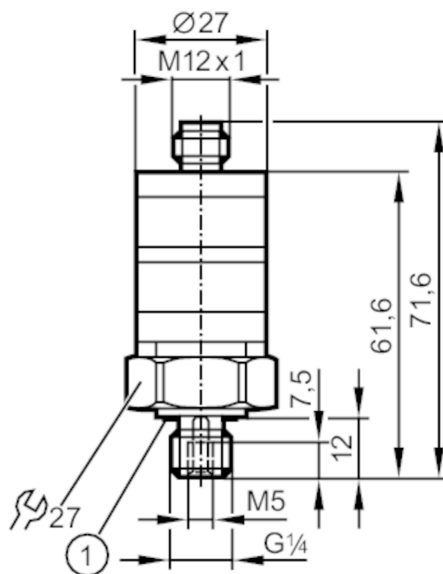


# PK6531



## Pressure switch with intuitive switch point setting

PK-250-SFG14-HCPKG/US/ IW



1 sealing



### Product characteristics

|                              |                                                              |            |
|------------------------------|--------------------------------------------------------------|------------|
| Number of inputs and outputs | Number of digital outputs: 2                                 |            |
| Measuring range              | 0...250 bar                                                  | 0...25 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. bursting pressure  | 1000 bar                    | 100 MPa |
| Pressure rating         | 400 bar                     | 40 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...250 bar    | 0...25 MPa      |
| Set point SP            | 12.5...250 bar | 1.25...25 MPa   |
| Reset point rP          | 7.5...245 bar  | 0.75...24.5 MPa |

| Accuracy / deviations                            |                                                                                          |
|--------------------------------------------------|------------------------------------------------------------------------------------------|
| Switch point accuracy [% of the final value]     | < ± 2,5; (Setting accuracy)                                                              |
| Repeatability [% of the final value]             | < ± 0,5; (with temperature fluctuations < 10 K)                                          |
| Characteristics deviation [% 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 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]                                                                               | 500                 |
| Pressure equipment directive | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                     |

| Mechanical data               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Weight                        | [g] 94.5                                                     |
| 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 | yes |
|------------|-----|

|         |  |
|---------|--|
| Remarks |  |
|---------|--|

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

|                       |
|-----------------------|
| Electrical connection |
|-----------------------|

Connector: 1 x M12; coding: A



|            |
|------------|
| Connection |
|------------|

