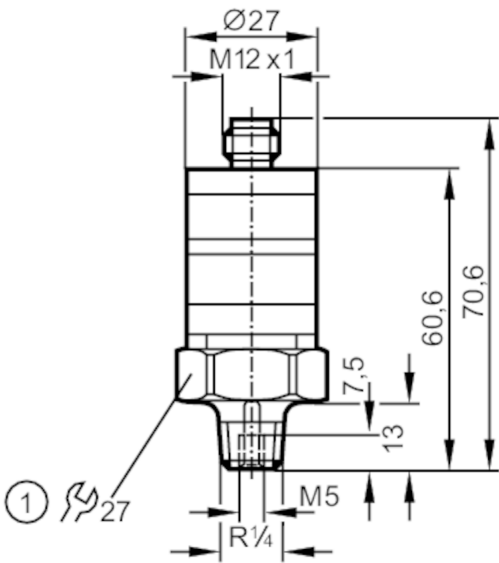




Pressure switch with intuitive switch point setting

PK-100-SFR14-PSPKG/US/ IW



1      Tightening torque 25 Nm



| Product characteristics         |                                                              |            |
|---------------------------------|--------------------------------------------------------------|------------|
| Number of inputs and outputs    | Number of digital outputs: 1                                 |            |
| Measuring range                 | 0...100 bar                                                  | 0...10 MPa |
| Process connection              | threaded connection R 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                 | 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: 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...100 bar | 0...10 MPa   |
| Set point SP            | 3...100 bar | 0.3...10 MPa |
| Hysteresis              | 2 bar       | 0.2 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 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]                 |                                                                                       | 1030                |
| Pressure Equipment Directive | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                     |

| Mechanical data               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Weight                        | [g] 97.5                                                     |
| Materials                     | PBT; PC; FKM; stainless steel (1.4404 / 316L)                |
| Materials (wetted parts)      | stainless steel (1.4404 / 316L); FKM                         |
| Min. pressure cycles          | 50 million                                                   |
| Process connection            | threaded connection R 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         |

# PK5722



## Pressure switch with intuitive switch point setting

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### Remarks

Pack quantity

1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A



### Connection

