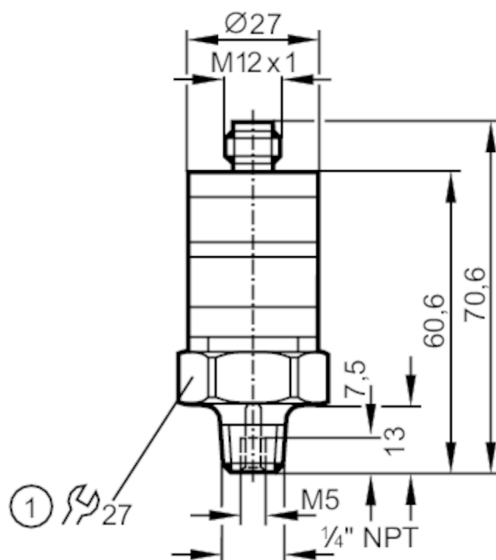




## Pressure switch with intuitive switch point setting

PK-100-SFN14-HCPKG/US/ /W



1 Tightening torque 25 Nm



### Product characteristics

|                              |                                                                 |              |
|------------------------------|-----------------------------------------------------------------|--------------|
| Number of inputs and outputs | Number of digital outputs: 2                                    |              |
| Measuring range              | 0...100 bar                                                     | 0...1450 psi |
| Process connection           | threaded connection 1/4" NPT external thread internal thread:M5 |              |

### Application

|                         |                             |           |
|-------------------------|-----------------------------|-----------|
| Application             | for industrial applications |           |
| Media                   | liquids and gases           |           |
| Medium temperature [°C] | -25...80                    |           |
| Min. bursting pressure  | 1000 bar                    | 14500 psi |
| Pressure rating         | 200 bar                     | 2900 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...100 bar | 0...1450 psi  |
| Set point SP            | 5...100 bar | 75...1450 psi |
| Reset point rP          | 3...98 bar  | 50...1420 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 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] 93                                                          |
| Materials                     | PBT; PC; FKM; stainless steel (316L/1.4404)                     |
| Materials (wetted parts)      | stainless steel (316L/1.4404)                                   |
| Min. pressure cycles          | 50 million                                                      |
| Process connection            | threaded connection 1/4" NPT 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              |             |

# PK6222



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### Remarks

Pack quantity

1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A



### Connection

