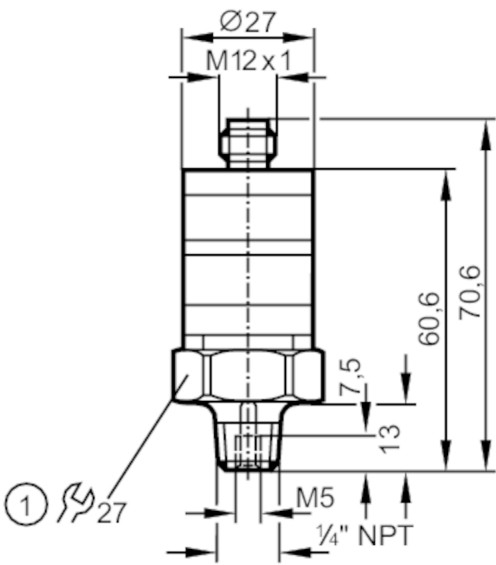




Pressure switch with intuitive switch point setting

PK-010-RFN14-HCPKG/US/    /W



1      Tightening torque 25 Nm



Product characteristics

|                              |                                                                 |             |
|------------------------------|-----------------------------------------------------------------|-------------|
| Number of inputs and outputs | Number of digital outputs: 2                                    |             |
| Measuring range              | 0...10 bar                                                      | 0...145 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                   | 300 bar                     | 4350 psi |
| Min. bursting pressure      [MPa]        | 30                          |          |
| Pressure rating                          | 25 bar                      | 362 psi  |
| Pressure rating      [MPa]               | 2.5                         |          |
| Type of pressure                         | relative pressure           |          |
| MAWP (for applications according to CRN) | 25 bar                      | 362 psi  |

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 |



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|                                                      |                                                                                          |                     |
|------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------|
| Electrical design                                    | PNP                                                                                      |                     |
| Number of digital outputs                            | 2                                                                                        |                     |
| Output function                                      | complementary                                                                            |                     |
| 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...10 bar                                                                               | 0...145 psi         |
| Set point SP                                         | 0.5...10 bar                                                                             | 7.5...145 psi       |
| Reset point rP                                       | 0.3...9.8 bar                                                                            | 5...142 psi         |
| 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 EN 60068-2-27                                                                        | 50 g (11 ms)        |
| Vibration resistance                                 | DIN EN 60068-2-6                                                                         | 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]                                           | 92.5                                                                                     |                     |
| Housing                                              | cylindrical                                                                              |                     |
| Dimensions [mm]                                      | Ø 27 / L = 70.6                                                                          |                     |
| 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                          |                     |

PK6224



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|                               |                         |             |
|-------------------------------|-------------------------|-------------|
| Restrictor element integrated | no (can be retrofitted) |             |
| Displays / operating elements |                         |             |
| Display                       | operation               | LED, green  |
|                               | switching status        | LED, yellow |
| With scale                    | yes                     |             |
| Remarks                       |                         |             |
| Pack quantity                 | 1 pcs.                  |             |

Electrical connection

Connector: 1 x M12; coding: A



Connection

