

# PK6524



## Pressure switch with intuitive switch point setting

PK-010-RFG14-HCPKG/US/ IW



1 Sealing



### Application

|  |                             |          |
|--|-----------------------------|----------|
| Application                              | for industrial applications |          |
| Media                                    | liquids and gases           |          |
| Medium temperature [°C]                  | -25...80                    |          |
| Pressure rating                          | 25 bar                      | 362 psi  |
| Min. bursting pressure                   | 300 bar                     | 4350 psi |
| 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             |

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| Outputs  |  |                     |
|--|--|---------------------|
| Total number of outputs                              | 2  |                     |
| Output signal  | switching signal   |                     |
| 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  |                     |
| 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    |                     |

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| Mechanical data               |                  |  |
|-------------------------------|------------------|--|
| Weight                        | [g]              | 91.8   |
| Materials                     |                  | 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 |
| 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



## Connection

