

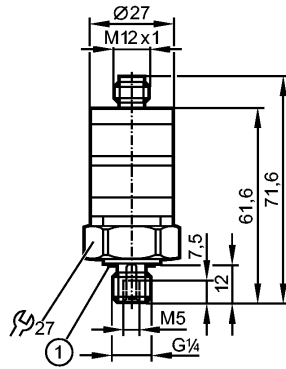


PK7521

PK-250-SFG14-QSPKG/US/ W



Pressure sensors



1: sealing FPM / DIN 3869-14



Product characteristics

Electronic pressure monitor

Quick disconnect

Process connection: G ¼ A / M5 I

2 switching outputs

Measuring range: 0...250 bar / 0...3625 psi

Application

| | | |
|-------------------------|--|-----------|
| Application | Type of pressure: relative pressure Liquids and gases | |
| Pressure rating | 400 bar | 5800 psi |
| Bursting pressure min. | 1000 bar | 14500 psi |
| Medium temperature [°C] | -25...80 | |

Electrical data

| | | |
|-----------------------------|------------------|--|
| Electrical design | DC PNP | |
| Operating voltage [V] | 9.6...32 DC | |
| Current consumption [mA] | < 25 | |
| Insulation resistance [MΩ] | > 100 (500 V DC) | |
| Protection class | III | |
| Reverse polarity protection | yes | |

Outputs

| | | |
|--------------------------|---------------------|--|
| Output | 2 switching outputs | |
| Output function | 2 x normally open | |
| Current rating [mA] | 500 | |
| Voltage drop [V] | < 2 | |
| Short-circuit protection | yes (non-latching) | |
| Overload protection | yes | |
| Switching frequency [Hz] | 100 | |

Measuring / setting range

| | | |
|-----------------|---------------|----------------|
| Measuring range | 0...250 bar | 0...3625 psi |
| Setting range | | |
| Set point, SP | 7.5...250 bar | 109...3625 psi |
| Hysteresis | 5.0 bar | 72 psi |

Accuracy / deviations

Deviations (% of value of measuring range)



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| | |
|-------------------------------|----------------------------------|
| Switch point accuracy | < ± 2.5 * |
| Characteristics deviation | < ± 1.5 (BFSL) / < ± 2.5 (LS) ** |
| Repeatability | < ± 0.5 |
| Temperature drift (/ 10 K) | < ± 0.5 |
| in the temperature range [°C] | 0...80 |

Software / programming

| | |
|--------------------------------|---------------|
| Adjustment of the switch point | Setting rings |
|--------------------------------|---------------|

Environment

| | |
|--------------------------|-----------|
| Ambient temperature [°C] | -25...80 |
| Storage temperature [°C] | -40...100 |
| Protection | IP 67 |

Tests / approvals

| | |
|----------------------|--|
| EMC | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V |
| 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] | 513 |

Mechanical data

| | |
|--------------------------|--|
| Process connection | G ¼ A / M5 I |
| Materials (wetted parts) | stainless steel 316L / 1.4404; FPM (Viton) |
| Housing materials | PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel 316L / 1.4404 |
| Switching cycles min. | 50 million |
| Tightening torque [Nm] | 25 |
| Weight [kg] | 0.095 |

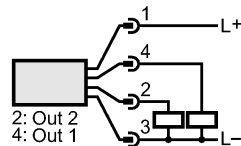
Displays / operating elements

| | |
|---------|---------------------------------|
| Display | Switching status 2 x LED yellow |
|---------|---------------------------------|

Electrical connection

| | |
|------------|---------------|
| Connection | M12 connector |
|------------|---------------|

Wiring



Remarks

| | |
|---------|---|
| Remarks | *) Setting accuracy **) BFSL = Best Fit Straight Line / LS = Limit Value Setting |
|---------|---|

| | |
|-----------------------|---|
| Pack quantity [piece] | 1 |
|-----------------------|---|