efectorsoo

ifm electronic

Pressure sensors

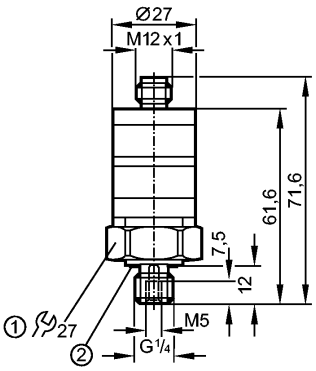
# PK7523

Electronic pressure monitor
PK75

Connector
Process connection G¼ A / M5 I

2 switching outputs

Measuring range
0...25 bar
0...363 PSI




1: tightening torque 25 Nm
2: sealing FPM / DIN 3869-14

Made in Germany

CE

| | | | |
|---|---|---|---|
| **Application** | | **Type of pressure: relative pressure<br>Liquids and gases** | |
| **Electrical design** | | **DC PNP** | |
| **Output** | | **2 x normally open** | |
| Operating voltage | [V] | 9.6...32 DC | |
| Current rating | [mA] | 500 | |
| Short-circuit protection | | pulsed | |
| Reverse polarity protection | | yes | |
| Overload protection | | yes | |
| Voltage drop | [V] | < 2 | |
| Current consumption | [mA] | < 25 | |
| Pressure rating | | 60 bar | 870 PSI |
| Bursting pressure min. | | 500 bar | 7253 PSI |
| **Setting range** | | | |
| Set point, SP | | 1.25...25 bar | 18...363 PSI |
| Hysteresis | | 0.5 bar | 7.2 PSI |
| Adjustment of the switch point | | setting rings | |
| **Deviations (% of value of measuring range)** | | | |
| 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 | | 0...80 | |

efectorsoo

ifm electronic

## PK7523

| | | |
|---|---|---|
| Switching frequency | [Hz] | 100 |
| Ambient temperature | [°C] | -25...80 |
| Medium temperature | [°C] | -25...80 |
| Storage temperature | [°C] | -40...100 |
| Protection | | IP 67, III |
| Insulation resistance | [MΩ] | > 100 (500 V DC) |
| Shock resistance | | DIN IEC 68-2-27: 50 g (11 ms) |
| Vibration resistance | | DIN IEC 68-2-6: 20 g (10...2000 Hz) |
| Switching cycles min. | | 50 million |
| EMC | | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD<br>EN 61000-4-3 HF radiated: 10 V/m<br>EN 61000-4-4 Burst: 2 kV<br>EN 61000-4-6 HF conducted: 10 V |
| MTTF | [Years] | 513 |
| Housing materials | | PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel 316L / 1.4404 |
| Materials (wetted parts) | | stainless steel 316L / 1.4404; FPM (Viton) |
| Display | | Switching status 2 x LED yellow |
| Connection | | M12 connector |
| Weight | [kg] | 0.094 |
| Remarks | | *) Setting accuracy<br>**) BFSL = Best Fit Straight Line / LS = Limit Value Setting |

**Wiring**

