

Pressure sensors

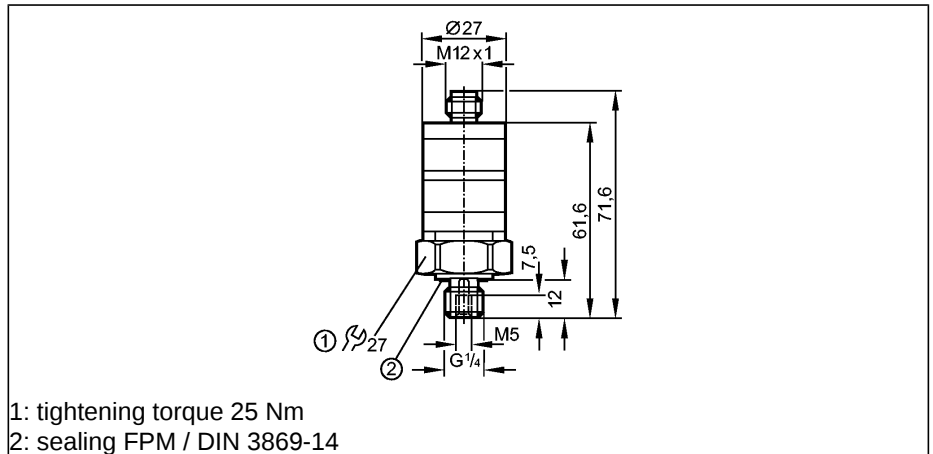
PK6523

Electronic pressure monitor
PK65

Connector
Process connection G $\frac{1}{4}$ A / M5 I

2 switching outputs
normally open / closed complementary

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



Made in Germany



Application
Electrical design
Output

Type of pressure: relative pressure
Liquids and gases
DC PNP
normally open / closed complementary

Operating voltage	[V]
Current rating	[mA]
Short-circuit protection	
Reverse polarity protection	
Overload protection	
Voltage drop	[V]
Current consumption	[mA]

9.6...32 DC ¹⁾	
500	
pulsed	
yes	
yes	
< 2	
< 25	

Pressure rating	
Bursting pressure min.	

60 bar	870 PSI
500 bar	7253 PSI

Setting range	
Set point, SP	
Reset point, rP	

1.25...25 bar	18...363 PSI
0.75...24.5 bar	11...355 PSI

Adjustment of the switch point

setting rings

Deviations (% of value of measuring range)	
Switch point accuracy	
Characteristics deviation	
Repeatability	
Temperature drift (/ 10 K)	
in the temperature range	

< ± 2.5 *)	
< ± 1.5 (BFSL) / < ± 2.5 (LS) **)	
< ± 0.5	
< ± 0.5	
0...80	

PK6523

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
	EN 61000-4-3 HF radiated: 10 V/m
	EN 61000-4-4 Burst: 2 kV
	EN 61000-4-6 HF conducted: 10 V
Housing materials	PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel 316L / 1.4404
Materials (wetted parts)	stainless steel 316L / 1.4404; FPM (Viton)
Display	Operation LED green Switching status LED yellow
Connection	M12 connector
Weight [kg]	0.093
Remarks	<p>1) The device shall be supplied from an isolating source and protected by an overcurrent device in accordance with UL 248 such that the limited voltage/current circuit requirements in accordance with UL 508 are met.</p> <p>*) Setting accuracy</p> <p>***) BFSL = Best Fit Straight Line / LS = Limit Value Setting</p>

Wiring

