

Pressure sensors

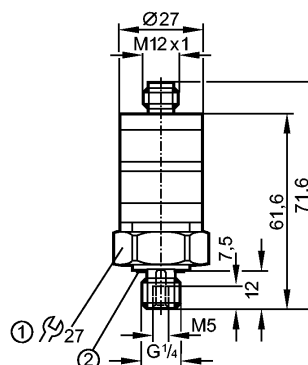
PK6520

Electronic pressure monitor
PK65

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

2 switching outputs
normally open / closed complementary

Measuring range
0...400 bar
0...5800 PSI



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



Made in Germany

Application

Electrical design

Output

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

Pressure rating	
Bursting pressure min.	

Setting range

Set point, SP	
Reset point, rP	
Adjustment of the switch point	

Deviations (% of value of measuring range)

Switch point accuracy	
Characteristics deviation	
Repeatability	
Temperature drift (/ 10 K)	
in the temperature range	

Type of pressure: relative pressure
Liquids and gases

DC PNP

normally open / closed complementary

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

600 bar	8700 PSI
1600 bar	23200 PSI

20...400 bar	290...5800 PSI
12...392 bar	175...5685 PSI

setting rings

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



PK6520

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]	0.095
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

