

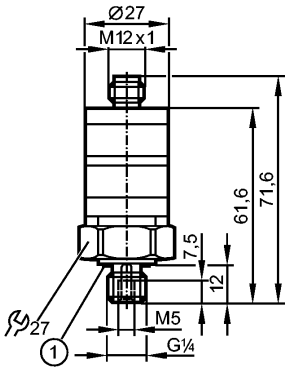


PK7521

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
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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
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Electrical connection

Connection	M12 connector
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Wiring

Remarks

Remarks	*) Setting accuracy **) BFSL = Best Fit Straight Line / LS = Limit Value Setting
Pack quantity [piece]	1