

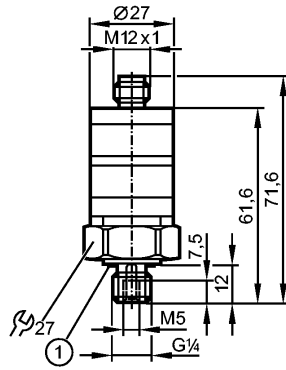


PK5522

PK-100-SFG14-PSPKG/US/ IW



Pressure sensors



1: sealing FPM / DIN 3869-14



Product characteristics

Electronic pressure monitor

Quick disconnect

Process connection: G 1/4 A / M5 I

1 switching output

Measuring range: 0...100 bar / 0...1450 psi

Application

Application	Type of pressure: relative pressure Liquids and gases	
Pressure rating	200 bar	2900 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	1 switching output	
Output function	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...100 bar	0...1450 psi
Setting range		
Set point, SP	3...100 bar	44...1450 psi
Hysteresis	2 bar	29 psi

Accuracy / deviations

Deviations (% of value of measuring range)



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Pressure sensors

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 ring
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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]		704

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]	0.093

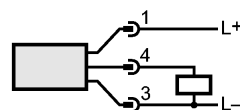
Displays / operating elements

Display	Power LED green Switching status 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
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Pack quantity [piece]	1
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