

1: sealing FPM / DIN 3869-14



Product characteristics

Electronic pressure monitor

Quick disconnect

Process connection: G ¼ A / M5 I

2 switching outputs

normally open / closed complementary

Measuring range: 0...10 bar / 0...145 psi

Application

Application

Type of pressure: relative pressure
Liquids and gases

Pressure rating	25 bar	362 psi
Bursting pressure min.	300 bar	4350 psi
MAWP (for applications according to CRN)	25 bar	362 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
normally open / closed complementary

Output function	complementary	
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...10 bar	0...145 psi
Setting range		
Set point, SP	0.5...10 bar	7.5...145 psi
Reset point, rP	0.3...9.8 bar	5.0...142 psi

Accuracy / deviations

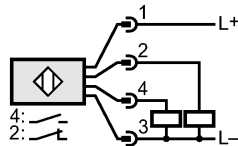
Deviations (% of value of measuring range)

Switch point accuracy	< ± 2.5 *	
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PK6524 - Electronic pressure monitor - eclass: 27201302 / 27-20-13-02

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	Setting rings	
Adjustment of the switch point	Setting rings	
Environment		
Ambient temperature [°C]	-25...80	
Storage temperature [°C]	-40...100	
Protection	IP 67	
Tests / approvals		
Pressure equipment directive	article 3, section 3 - sound engineering practice	
EMC	DIN EN 61000-6-2 DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [Years]	540	
Mechanical data		
Process connection	G ¼ A / M5 I	
Materials (wetted parts)	stainless steel 316L / 1.4404; FPM	
Housing materials	PBT; PC; FPM; 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
Electrical connection		
Connection	M12 connector	

Wiring



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