

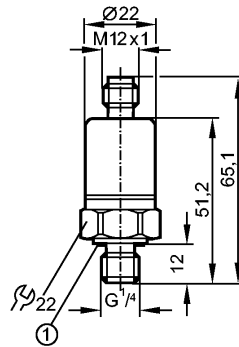


# PC9050

PT-400-SBG14-C-DVG/ IW



Pressure sensors



1: FKM seal / DIN 3869-14  
tightening torque 25 Nm



### Product characteristics

Electronic pressure sensor

for mobile applications

Process connection: G 1/4 A

Analog output

Measuring range: 0...400 bar

### Application

Application	Type of pressure: relative pressure Liquids and gases	
Pressure rating [bar]	600	
Bursting pressure min. [bar]	1600	
Medium temperature [°C]	-25...90 ****)	

### Electrical data

Electrical design	DC	
Operating voltage [V]	5 DC; ratiometric	
Current consumption [mA]	< 6	
Insulation resistance [MΩ]	> 100 (80 V DC)	
Protection class	III	
Reverse polarity protection	yes	

### Outputs

Output	Analog output	
Output function	0.5...4.5 V	
Max. load [Ω]	≥ 5000	

### Measuring / setting range

Measuring range [bar]	0...400	
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### Accuracy / deviations

Accuracy / deviations (in % of the span)		
Characteristics deviation *)	< ± 1.0	
Linearity	< ± 0.25 (BFSL) / < ± 0.5 (LS)	
Hysteresis	< ± 0.2	
Repeatability **)	< ± 0.1	
Long-term stability ***)	< ± 0.1	



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Pressure sensors

Temperature drift ( / 10 K)	< ± 0.5
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### Reaction times

Step response time analogue output [ms]	8
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### Environment

Ambient temperature [°C]	-25...90 ****)
Storage temperature [°C]	-40...100
Protection	IP 67 / IP 69K

### Tests / approvals

EMC	noise immunity ISO 11452-2 ISO 11452-4 DIN EN 61000-4-2 ESD: DIN EN 61000-6-2 radiation of interference CISPR25 DIN EN 61000-6-3	according to the automotive directive 95/54/EC 100 V/m 100 mA / severity level 4 4 kV CD / 8 kV AD
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Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
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Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
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MTTF [Years]		3896
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### Mechanical data

Process connection		G ¼ A
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Materials (wetted parts)		stainless steel 316L / 1.4404; FPM (Viton)
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Housing materials		stainless steel 316L / 1.4404; TROGAMID
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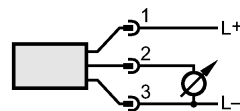
Min. pressure cycles		50 million
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Weight [kg]		0.077
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### Electrical connection

Connection		M12 connector
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#### Wiring



### Remarks

Remarks	<p>*) incl. drift due to tightening torque, zero and span error          **) with temperature fluctuations &lt; 10 K          ***) in% of the span / 6 months          ****) -40...100°C upon request          e1 approval on request          BFSL = Best Fit Straight Line / LS = Limit Value Setting</p>
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Pack quantity [piece]		1
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