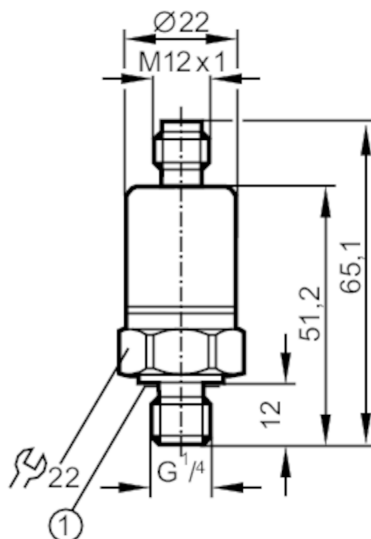




Pressure transmitter

PT-250-SBG14-B-DVG/US/ IW



- 1 Sealing
Tightening torque 25 Nm



Application

Application	for mobile applications
Media	liquids and gases
Medium temperature [°C]	-25...90; (on request: -40...100 °C)
Pressure rating [bar]	400
Min. bursting pressure [bar]	1000
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	16...36 DC
Current consumption [mA]	< 6
Min. insulation resistance [MΩ]	100; (80 V DC)
Protection class	III
Reverse polarity protection	yes

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
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Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue voltage output [V]	0...10
Min. load resistance [Ω]	2000

Measuring/setting range

Measuring range [bar]	0...250
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Accuracy / deviations		
Repeatability	[% of the span]	$< \pm 0,1$; (with temperature fluctuations $< 10\text{ K}$)
Characteristics deviation	[% of the span]	$< \pm 1,0$; (incl. drift when overtightened, zero point and span error)
Linearity deviation	[% of the span]	$< \pm 0,25$ (BFSL) / $< \pm 0,5$ (LS)
Hysteresis deviation	[% of the span]	$< \pm 0,2$
Long-term stability	[% of the span]	$< \pm 0,1$; (per 6 months)
Temperature coefficient zero point	[% of the span / 10 K]	$< \pm 0,1$; ($-25...90\text{ °C}$)
Temperature coefficient span	[% of the span / 10 K]	$< \pm 0,1$; ($-25...90\text{ °C}$)
Response times		
Step response time analogue output	[ms]	8
Operating conditions		
Ambient temperature	[°C]	$-25...90$
Storage temperature	[°C]	$-40...100$
Protection		IP 67; IP 69K
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	noise immunity	according to the automotive directive 1995/54/EC, 2004/104 EC, 2005/83/EC
	ISO 11452-2	100 V/m
	ISO 11452-4	100 mA / severity level 4
	ISO 7637-2	severity level 4
	radiation of interference	CISPR 25
	EN 61000-6-1	
	EN 61000-6-4	
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]	1069
Mechanical data		
Weight	[g]	83
Materials		stainless steel (1.4404 / 316L); PA
Materials (wetted parts)		stainless steel (1.4404 / 316L); FKM
Min. pressure cycles		50 million
Process connection		threaded connection G 1/4 external thread
Restrictor element integrated		yes
Remarks		
Remarks		BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity		1 pcs.

PT9551



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Electrical connection

Connector: 1 x M12



Connection

