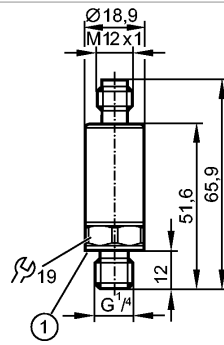


PU5414

PU-016-SEG14-B-DVG/US/ IW

Pressure sensors



1: sealing FKM / DIN 3869

Made in Germany



Product characteristics

Electronic pressure sensor
for industrial applications
Process connection: G ¼ A (according to DIN EN ISO 1179-2)
Analogue output
Measuring range: 0...16 bar

Application

Application	Type of pressure: relative pressure liquids and gases of the fluid group 2 according to Article 9 of the Pressure Equipment Directive (PED)
Pressure rating [bar]	40 (static)
Bursting pressure min. [bar]	450
Medium temperature [°C]	-40...90

Electrical data

Electrical design	DC
Operating voltage [V]	16...36 DC
Current consumption [mA]	< 12
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes

Outputs

Output	Analogue output
Output function	0...10 V analogue
Short-circuit proof	yes
Overload protection	yes
Min. Lastwiderstand [Ω]	2000

Measuring / setting range

Measuring range [bar]	0...16
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Accuracy / deviations

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 0.5
Linearity	< ± 0.1 (BFSL) / < ± 0.2 (LS)
Hysteresis	< ± 0.2
Repeatability **)	< ± 0.05
Long-term stability ***)	< ± 0.1

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Pressure sensors

Temperature coefficients (TEMPCO) in the temperature range -40...90° C (in % of the span per 10 K)

Greatest TEMPCO of the zero point + span	< ± 0.1 (-25...90 °C) / < ± 0.2 (-40...-25 °C)
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Reaction times

Step response time analogue output [ms]	1
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Environment

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

Tests / approvals

EC pressure equipment directive 97/23/EC	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]	1142.7

Mechanical data

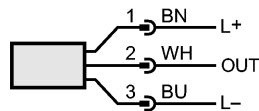
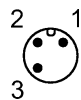
Process connection	G ¼ A (according to DIN EN ISO 1179-2)
Materials (wetted parts)	1.4542
Housing materials	stainless steel 316L / 1.4404; PA
Min. pressure cycles	60 millions in the course of the lifetime (at 1.2 times the nominal pressure)
Tightening torque [Nm]	25...35 (recommended tightening torque ¹)
Weight [kg]	0.055

Electrical connection

Connection	M12 connector
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Wiring

Core colours
 BN brown
 BU blue
 WH white



OUT: Analogue output
 Colours to DIN 47100

Remarks

Remarks	<p>*) incl. drift when overtightened, zero point and span error, non-linearity, hysteresis **) with temperature fluctuations < 10 K ***) in% of the span / 6 months ¹) Depends on lubrication, seal and pressure rating BFSL = Best Fit Straight Line / LS = Limit Value Setting</p>
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Pack quantity [piece]	1
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