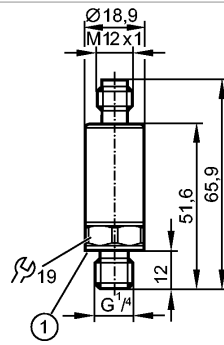


**PU5415**

PU-006-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...6 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]	15 (static)
Bursting pressure min. [bar]	200
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...6
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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	$< \pm 0.1$ (-25...90 °C) / $< \pm 0.2$ (-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)

**Mechanical data**

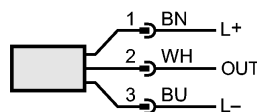
Process connection	G ¼ A (according to DIN EN ISO 1179-2)
Materials (wetted parts)	1.4542
Housing materials	stainless steel 316L / 1.4404; PA
Min. pressure cycles	60 millions in the course of the lifetime (at 1.2 times the nominal pressure)
Tightening torque [Nm]	25...35 (recommended tightening torque <sup>1)</sup> )
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 EN 60947-5-6

**Remarks**

Remarks	<p>*) incl. drift when overtightened, zero point and span error, non-linearity, hysteresis                  **) with temperature fluctuations &lt; 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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