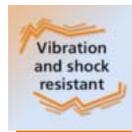


Small and cost-optimised: PT / PU pressure transmitters



Generate a precise analogue signal even where space is at a premium

- Compact design (AF19) with process connection G 1/4
- Fast reaction: 1 millisecond response time
- Measuring accuracy $< \pm 0.5 \%$, repeatability $< \pm 0.05 \%$
- Easy connection via M12 connector
- Robust low-cost solution with welded stainless steel housing



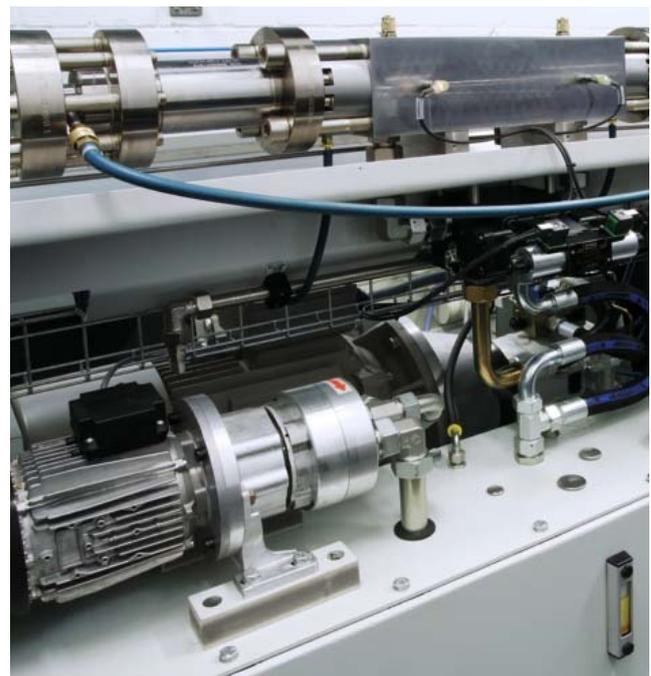
Miniaturisation for industrial applications

The new PT/PU pressure sensors have a thin film measuring cell directly welded with the process connection. This technology guarantees high accuracy in a very compact housing with only 19 mm across flats at a cost-optimised price / performance ratio.

Applications

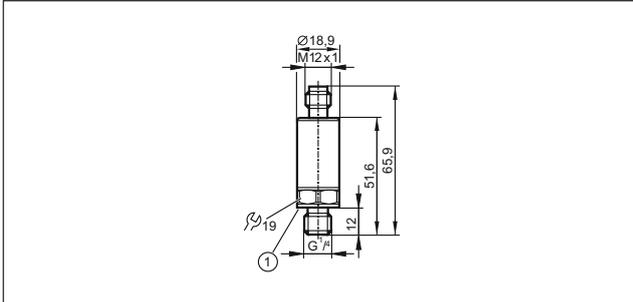
With the sealless design of the process connection the sensors can be used not only in hydraulic applications but also in inert gases. In industrial applications the laser labelling on the housing is also advantageous. Even in adverse environmental conditions, the sensor remains permanently identifiable. Another advantage: the fast output – with analogue transmission, the signal follows the pressure value within one millisecond.

The high vibration and shock resistance as well as protection rating IP 67 or IP 69K complete the list of requirements for use in industrial applications.



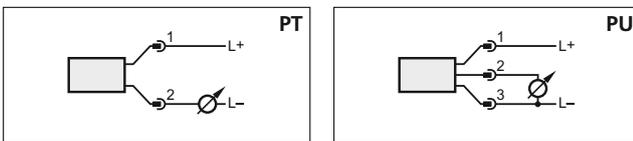
Pressure monitoring on a high-speed pump

Dimensions



1) FKM seal / DIN 3869-14

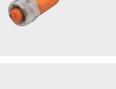
Wiring diagram



Accessories

Type	Description	Order no.
	Adapters; G 1/4 - G 1/2, High-grade stainless steel (316Ti/1.4571)	E30135

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005

Measuring range Relative pressure [bar]	Poverload max. [bar]	Pburst min. [bar]	Order no.
Output function 4...20 mA			
0...6	15	200	PT5415
0...10	25	300	PT5404
0...16	40	450	PT5414
0...25	60	600	PT5403
0...40	80	800	PT5443
0...100	200	1000	PT5402
0...160	320	1100	PT5412
0...250	500	1200	PT5401
0...400	800	1700	PT5400
0...600	1200	2400	PT5460

Output function 0...10V			
0...6	15	200	PU5415
0...10	25	300	PU5404
0...16	40	450	PU5414
0...25	60	600	PU5403
0...40	80	800	PU5443
0...100	200	1000	PU5402
0...160	320	1100	PU5412
0...250	500	1200	PU5401
0...400	800	1700	PU5400
0...600	1200	2400	PU5460

Common technical data		
Operating voltage	PT [V DC] PU [V DC]	8.5...36 16...36
Reverse polarity protection		•
Accuracy / deviation (in % of the span)		
Linearity error		< ± 0.5
Linearity		< ± 0.1 BFSL / < ± 0.2 LS
Hysteresis		< ± 0.2
Repeatability		< ± 0.05
Long-term stability		< ± 0.1
Temperature coefficients (TEMPCO) in the temperature range -40 ... 90 °C (in % of the span per 10 K)		
TEMPCO of zero + span		< ± 0.1 (-25...90°C) < ± 0.2 (-40...25°C)
Medium temperature	[°C]	-40...90
Protection		IP 67 / IP 69K
Materials wetted parts		FKM, high-grade stainless steel (17-4 PH/1.4542)
Step response time	[ms]	1

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