



Process sensors

With E1 approval: Pressure transmitters for mobile machines



Pressure sensors



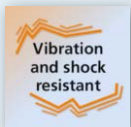
Compact design with 19 mm across flats and G 1/4-inch process connection

Fast response time of only 2 milliseconds

Measuring accuracy $< \pm 0.8\%$, repeatability $< \pm 0.05\%$

Easy connection via M12 or DEUTSCH connector

Welded stainless steel housing for reliable use in harsh working environments



E1 type approval for mobile applications

The PT/PU-type sensors are suited for mobile applications and especially for hydraulic and pneumatic applications with high operating pressure. They offer high vibration and shock resistance, a high degree of protection and very good EMC resistance. They also have the E1 type approval.

High measuring accuracy in compact housing

The thin-film measuring cell of the sensor is directly welded to the process connection and features a high measuring accuracy and short response time. The measurement technology used also enables the extremely compact housing dimensions with a width across flats of only 19 millimetres. This facilitates installation even where space is at a premium.



Accessories

Type	Description	Order no.
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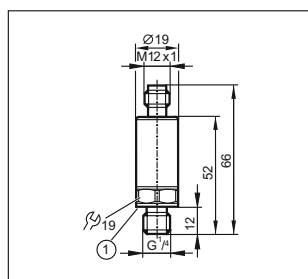
Installation

	Adapter G 1/4 – G 1/2, high-grade stainless steel (1.4571/316Ti)	E30135
	Seal FKM	E30145
	Seal EPDM	E30442

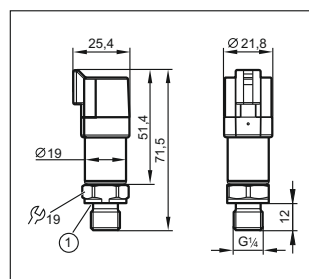
Connection technology

	Socket, M12, 2 m, PUR cable, halogen-free, black	EVM001
	Socket, M12, 5 m, PUR cable, halogen-free, black	EVM002
	Socket, M12, 10 m, PUR cable, halogen-free, black	EVM003
	Socket, M12, 2 m, PUR cable, halogen-free, black	EVM004
	Socket, M12, 5 m, PUR cable, halogen-free, black	EVM005
	Socket, M12, 10 m, PUR cable, halogen-free, black	EVM006

Dimensions

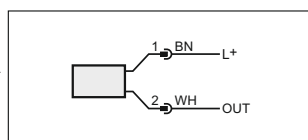


PT5 / PU5

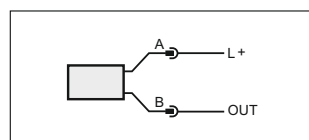


PT7
1) Seal: FKM / DIN 3869

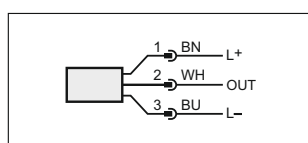
Wiring diagram



PT5



PT7



PU5

Measuring range relative pressure [bar]	P _{overload} max. (static) [bar]	P _{bursting} min. [bar]	Order no.
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Output function 4...20 mA, M12 connector

0...600	1500	2500	PT560E
0...400	1000	1700	PT500E
0...250	625	1200	PT501E
0...100	250	1000	PT502E
0...25	65	600	PT503E
0...10	25	300	PT504E

Output function 4...20 mA, DEUTSCH connector

0...600	1500	2500	PT760E
0...400	1000	1700	PT700E
0...250	625	1200	PT701E
0...100	250	1000	PT702E
0...25	65	600	PT703E
0...10	25	300	PT704E

Output function 0.5...4.5 V, M12 connector

0...600	1500	2500	PU560E
0...400	1000	1700	PU500E
0...250	625	1200	PU501E
0...100	250	1000	PU502E
0...60	150	900	PU523E
0...25	65	600	PU503E
0...10	25	300	PU504E

Common technical data

Operating voltage	[V DC]	8...32
Reverse polarity protection		•
Accuracy / deviation (in % of the span)		
Linearity error		< ± 0.8
Linearity		< ± 0.25 (BFSL) / < ± 0.5 (LS)
Hysteresis		< ± 0.2
Repeatability		< ± 0.05
Long-term stability		< ± 0.1
Temperature coefficient (TEMPCO) in the temperature range -40...125°C (in % of the span per 10 K)		
TEMPCO of zero + span		< ± 0.1 (0...80 °C) < ± 0.2 (-40...0 °C and 80...125 °C)
Medium temperature	[°C]	-40...125
Protection		IP 67 / IP 69K
Materials (wetted parts)		high-grade stainless steel (1.4542) (17-4 PH / 630)
Restrictor		•
EMC		compliant with UN ECE R10 Rev. 5 ISO 11452-2: 100 V/m EN61326-1