PRODUCT INFORMATION

PBT

A GENUINELY TALENTED ALL-ROUNDER

Pressure sensors

SICK
Sensor Intelligence.

A GENUINELY TALENTED ALL-ROUNDER

Product description

The PBT is a universal electronic pressure transmitter used in general industrial applications for pressure measurement of liquid and gaseous fluids. Suitable for standard measuring applications in machine and plant engineering, pressure control systems, hydraulics, pneumatics, etc., it supports a wide variety of configurations. and can thus provide the perfect match for individual customer requirements. Its precise and rugged measurement technology, compact dimensions, and quick and simple installation set the PBT apart as a genuinely talented all-rounder.

At a glance

- Pressure measurement ranges from 0 bar ... 1 bar up to 0 bar ... 600 bar
- Relative, absolute, and ± measuring ranges
- Large number of process connections available
- No mechanical moving parts. Hence no wear, fatigue, or maintenance
- Circularly welded, hermetically sealed stainless steel membrane
- Output signal 4 mA ... 20 mA, 0 V ... 5 V or 0 V ... 10 V
- Electrical connection M12 x 1, angled plug (acc. to DIN 175301-803 A) or cable connection

Your benefits

- Compact size takes up less space
- Simple and cost-saving installation
- Available in a wide selection of configurations, enabling a perfect match to individual customer requirements
- Robust design enables higher reliability
- Excellent price/performance ratio

Additional information

→ www.sick.com/PBT

For more information, simply enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.

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Subject to change without notice

Detailed technical data

Features

Medium	Liquid, gaseous
Pressure units	Bar, MPa, psi and kg/cm²
Measuring ranges	
Gauge pressure	0 bar ... 1 bar up to bar ... 600 bar
Absolute pressure	0 bar ... 1 bar up to 0 bar ... 25 bar
Compound pressure	–1 bar ... 0 bar up to –1 bar ... +24 bar
Process temperature	0 °C ... +80 °C, –40 °C ... +100 °C optional
Analog signal output and ohmic load R_A	4 mA ... 20 mA, 2-wire ($R_A \leq (L^+ - 8\ V) / 0.02\ A$ [Ohm]) 0 V ... 10 V, 3-wire ($R_A > 10$ kOhm) 0 V ... 5 V, 3-wire ($R_A > 5$ kOhm)

Performance

Non-linearity	≤ ± 0.5 % of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 ≤ ± 0.25 % of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 optional Adjusted in vertical mounting position with pressure connection facing downwards
Accuracy	≤ ± 0.5 % of the span (with non-linearity 0.25 %) ≤ ± 0,6 % of Span (with non-linearity 0.25 % and with signal output 0 ... 5 V) ≤ ± 1,0 % of Span (with non-linearity 0.5 %) Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement as per IEC 61298-2)
Adjustment accuracy of zero signal	≤ 0.15 % of span typ., ≤ 0.4 % of span max. (with non-linearity 0.25 %) ≤ 0.5 % of span typ., ≤ 0.8 % max. % of span (with non-linearity 0.5 %)
Hysteresis	≤ 0.16 % of the span
Non-repeatability	≤ 0.1 % of the span
Response time	< 4 ms
Signal noise	≤ 0.3 % of the span
Long-term drift/one-year stability	≤ 0.1 % of span to IEC 61298-2
Temperature error	≤ 1.0 % of span typ., ≤ 2.5 % of span max.
Rated temperature range	0 °C ... +80 °C
Service life	Minimum 100 Mio. life cycles

Mechanics/electronics

Process connection	See type code
Wetted parts	Pressure Connection: stainless steel 316L Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar ... 10 bar rel stainless steel 13-8 PH)
Internal transmission fluid	Silicone oil (only with pressure ranges < 0 bar ... 10 bar and ≤ 0 bar abs ... 25 bar abs)
Pressure peak dampening	Through integrated pressure port 0.6 mm or 0.3 mm for process connection G ¼ according to DIN 3852-E (0.3 mm at and above 10 bar)
Pressure port	3.5 mm (standard)
Housing material	Stainless steel 316L
Electrical connection/enclosure rating	Round connector M12 x 1, 4-pin, IP67 [1] L-connector (DIN EN 175301-803 A), IP65 [1] Flying leads 2 m / 5 m, IP67 [1]
Supply voltage	8 V DC ... 35 V DC with output signal 4 mA ... 20 mA and 0 V ... 5 V 14 V DC ... 35 V DC with output signal 0 V ... 10 V [2]

[1] Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

[2] The pressure transmitter must be supplied with power by a limited energy circuit compliant with 9.3 of UL/EN/IEC 601010-1 or LPS to UL/EN/IEC 60950-1 or Class 2 to UL 1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2,000 m if the pressure transmitter is used above this altitude.

Power consumption	Signal current (max. 25 mA) for current output Max. 8 mA for voltage output signal
Electrical safety	Overvoltage protection: 32 V DC, 36 V DC with 4 mA ... 20 mA Short-circuit protection: Q_A towards M Reverse polarity protection: L^+ to M Protection class: III
Insolation voltage	500 V DC
CE-conformity	Pressure equipment directive: 2014/68/EU, EMC directive: 2014/30/EU, EN 61 326-2-3
Weight sensor	Approx. 80 g
Reference conditions	Reference conditions: According to IEC 61298-1

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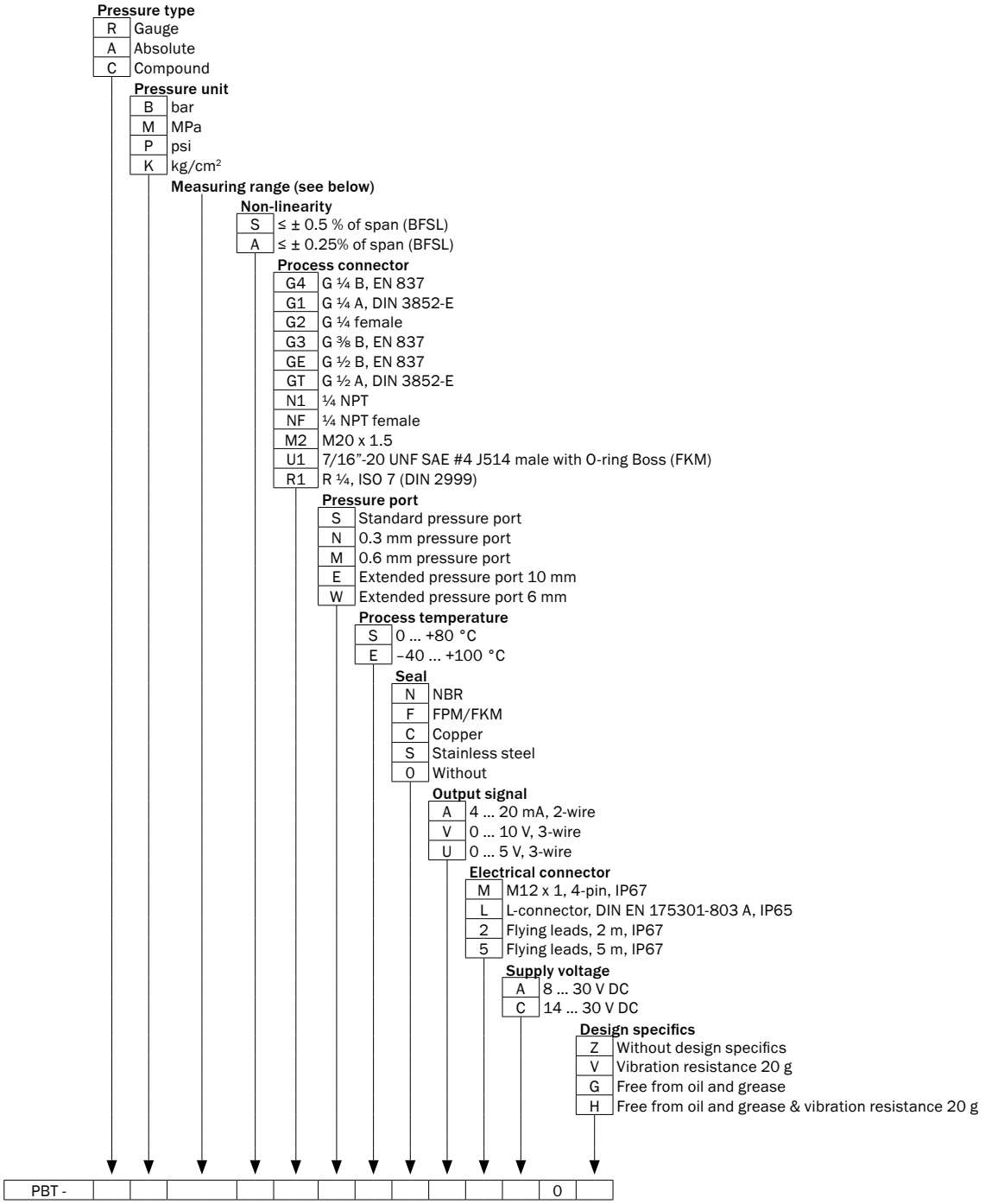
Ambient data

Ambient temperature	0 °C ... +80 °C –40 °C ... +100 °C optional
Storage temperature	–40 °C ... +70 °C
Relative humidity	45 % ... 75 %
Shock load	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration load	10 g according to IEC 60068-2-6 (vibration under resonance) 20 g optional

Type code



Not all variations of the type code can be combined! Not all available variations are shown.

Measuring range

	Gauge Pressure	Overpressure safety
1X1	0 ... 1 bar	2 bar
1X6	0 ... 1,6 bar	3,2 bar
2X5	0 ... 2,5 bar	5 bar
4X0	0 ... 4 bar	8 bar
6X0	0...6 bar	12 bar

	Absolute Pressure	Overpressure safety
1X0	0 ... 1 bar abs	2 bar abs
1X6	0 ... 1,6 bar abs	3,2 bar abs
2X5	0 ... 2,5 bar abs	5 bar abs
4X0	0 ... 4 bar abs	8 bar abs
6X0	0 ... 6 bar abs	12 bar abs

	Compound Pressure	Overpressure safety
1X0	–1...0 bar	2 bar
1X6	–1 ... +0,6 bar	3,2 bar
2X5	–1 ... +1,5 bar	5 bar
4X0	–1 ... +3 bar	8 bar
6X0	–1 ... +5 bar	12 bar

	Gauge Pressure	Overpressure safety
010	0 ... 10 bar	20 bar
016	0 ... 16 bar	32 bar
025	0 ... 25 bar	50 bar
040	0 ... 40 bar	80 bar
060	0 ... 60 bar	120 bar
100	0 ... 100 bar	200 bar
160	0 ... 160 bar	320 bar
250	0 ... 250 bar	500 bar
400	0 ... 400 bar	800 bar
600	0 ... 600 bar	1200 bar

	Absolute Pressure	Overpressure safety
010	0 ... 10 bar abs	20 bar abs
016	0 ... 16 bar abs	32 bar abs
025	0 ... 25 bar abs	50 bar abs

	Compound Pressure	Overpressure safety
010	–1 ... +9 bar	20 bar
016	–1 ... +15 bar	32 bar
025	–1 ... +24 bar	50 bar

	Gauge Pressure	Overpressure safety
015	0 ... 15 psi	30 psi
025	0 ... 25 psi	60 psi
030	0 ... 30 psi	60 psi
050	0 ... 50 psi	100 psi
100	0 ... 100 psi	200 psi
160	0 ... 160 psi	290 psi
200	0 ... 200 psi	400 psi
300	0 ... 300 psi	600 psi
500	0 ... 500 psi	1000 psi
1K0	0 ... 1000 psi	1740 psi
1K5	0 ... 1500 psi	2900 psi
2K0	0 ... 2000 psi	4000 psi
3K0	0 ... 3000 psi	6000 psi
5K0	0 ... 5000 psi	10000 psi
8K0	0 ... 8000 psi	17400 psi

	Absolute Pressure	Overpressure safety
015	0 ... 15 psi abs	30 psi abs
025	0 ... 25 psi abs	60 psi abs
030	0 ... 30 psi abs	60 psi abs
050	0 ... 50 psi abs	100 psi abs
100	0 ... 100 psi abs	200 psi abs
150	0 ... 160 psi abs	290 psi abs
200	0 ... 200 psi abs	400 psi abs
300	0 ... 300 psi abs	600 psi abs

	Compound Pressure	Overpressure safety
015	–14,5 ... +0 psi	30 psi
030	–14,5 ... +15 psi	60 psi
045	–14,5 ... +25 psi	100 psi
075	–14,5 ... +30 psi	200 psi
115	–14,5 ... +100 psi	290 psi
175	–14,5 ... +160 psi	400 psi
215	–14,5 ... +200 psi	400 psi
315	–14,5 ... +300 psi	600 psi

Ordering information

PBT-RB

- Gauge pressure
- **Electrical connection:** round connector M12 x 1, 4-pin, IP67
- **Accuracy:** ≤ ± 1 % of the span

Output signal	Process connection	Seal	Process temperature	Measuring range	Pressure port	Type	Part no.
4 mA ... 20 mA	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 400 bar	Standard	PBT-RB400SG1SSNAMA0Z	6038656
				0 bar ... 100 bar	Standard	PBT-RB100SG1SSNAMA0Z	6038648
				0 bar ... 250 bar	Standard	PBT-RB250SG1SSNAMA0Z	6038652
				0 bar ... 10 bar	Standard	PBT-RB010SG1SSNAMA0Z	6038615
	G ¼ B according to DIN 837	Without seal	0 °C ... +80 °C	0 bar ... 10 bar	Standard	PBT-RB010SG4SS0A-MA0Z	6048338
			–40 °C ... +100 °C	0 bar ... 40 bar	Standard	PBT-RB040SG4SE0A-MA0Z	6048576
			0 °C ... +80 °C	0 bar ... 16 bar	Standard	PBT-RB016SG4SS0A-MA0Z	6049692
	G ⅜ B according to EN 837	Without seal	0 °C ... +80 °C	0 bar ... 1 bar	Standard	PBT-RB1X0SG3SS0A-MA0Z	6065028
	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 400 bar	Standard	PBT-RB400SG2SS0A-MA0Z	6038657
				0 bar ... 250 bar	Standard	PBT-RB250SG2SS0A-MA0Z	6038653
				0 bar ... 100 bar	Standard	PBT-RB100SG2SS0A-MA0Z	6038649
				0 bar ... 10 bar	Standard	PBT-RB010SG2SS0A-MA0Z	6038637
	¼'' NPT	Without seal	0 °C ... +80 °C	0 bar ... 400 bar	Standard	PBT-RB400SN1SS0A-MA0Z	6042070
				0 bar ... 250 bar	Standard	PBT-RB250SN1SS0A-MA0Z	6042527
				0 bar ... 100 bar	Standard	PBT-RB100SN1SS0A-MA0Z	6042006
				0 bar ... 10 bar	Standard	PBT-RB010SN1SS0A-MA0Z	6039256
0 V ... 10 V, 3-wire	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 250 bar	Standard	PBT-RB250SG1SSN-VMC0Z	6038654
				0 bar ... 100 bar	Standard	PBT-RB100SG1SSN-VMC0Z	6038650
	¼" NPT female	Without seal	0 °C ... +80 °C	0 bar ... 16 bar	Standard	PBT-RB016SNFSS0VMC0Z	6050232
				0 bar ... 40 bar	Standard	PBT-RB040SNFSS0VMC0Z	6050233

PBT-RM

- Gauge pressure
- **Accuracy:** ≤ ± 1 % of the span
- **Pressure port:** Standard

Output signal	Electrical connection	Process connection	Seal	Process temperature	Measuring range	Type	Part no.
4 mA ... 20 mA	L-connector acc. to DIN 175301-803 A, IP65	G ¼ A according to DIN 3852-E	FPM/FKM	0 °C ... +80 °C	0 MPa ... 16 MPa	PBT-RM016SG1SSFALA0V	6040934
	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–40 °C ... +100 °C	0 MPa ... 25 MPa	PBT-RM025SG1SENAMA0Z	6039190

Output signal	Electrical connection	Process connection	Seal	Process temperature	Measuring range	Type	Part no.
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 MPa ... 25 MPa	PBT-RM025SG1SSNVMC0Z	6039607
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	M20 x 1.5	Without seal	0 °C ... +80 °C	0 MPa ... 25 MPa	PBT-RM025SM2SS0AMA0Z	6041322
		G ¼ A according to DIN 3852-E	NBR	–40 °C ... +100 °C	0 MPa ... 40 MPa	PBT-RM040SG1SENAMA0Z	6039853
	L-connector acc. to DIN 175301-803 A, IP65	M20 x 1.5	Without seal	0 °C ... +80 °C	0 MPa ... 40 MPa	PBT-RM040SM2SS0ALA0Z	6041212
	Round connector M12 x 1, 4-pin, IP67	M20 x 1.5	Without seal	0 °C ... +80 °C	0 MPa ... 40 MPa	PBT-RM040SM2SS0AMA0Z	6041293
	L-connector acc. to DIN 175301-803 A, IP65	¼'' NPT	Without seal	0 °C ... +80 °C	0 MPa ... 40 MPa	PBT-RM040SN1SS0ALA0Z	6041207

PBT-RP

- Gauge pressure
- **Electrical connection:** round connector M12 x 1, 4-pin, IP67
- **Accuracy:** ≤ ± 1 % of the span
- **Pressure port:** Standard

Output signal	Process connection	Seal	Process temperature	Measuring range	Type	Part no.
4 mA ... 20 mA	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 psi ... 15 psi	PBT-RP015SG1SSNAMA0Z	6041002
				0 psi ... 25 psi	PBT-RP025SG1SSNAMA0Z	6039269
				0 psi ... 50 psi	PBT-RP050SG1SSNAMA0Z	6039268
				0 psi ... 100 psi	PBT-RP100SG1SSNAMA0Z	6039267
0 V ... 10 V, 3-wire	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 psi ... 100 psi	PBT-RP100SG1SSN-VMC0Z	6039580
0 V ... 5 V, 3-wire	¼'' NPT	Without seal	–40 °C ... +100 °C	0 psi ... 100 psi	PBT-RP100SN1SE0U-MA0Z	6039260
0 V ... 10 V, 3-wire	¼'' NPT	Without seal	0 °C ... +80 °C	0 psi ... 100 psi	PBT-RP100SN1S-S0VMC0Z	6040977
				0 psi ... 160 psi	PBT-RP160SN1S-S0VMC0Z	6039676

PBT-AB

- Absolute pressure
- **Pressure port:** Standard

Output signal	Electrical connection	Process connection	Seal	Process temperature	Measuring range	Accuracy	Type	Part no.
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 10 bar	≤ ± 1 % of the span	PBT-AB010SG1SSNAMA0Z	6038689
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 10 bar	≤ ± 1 % of the span	PBT-AB010SG1SSN-VMC0Z	6038690

Output signal	Electrical connection	Process connection	Seal	Process temperature	Measuring range	Accuracy	Type	Part no.
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 10 bar	≤ ± 1 % of the span	PBT-AB010SG2SS0A-MA0Z	6038706
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 10 bar	≤ ± 1 % of the span	PBT-AB010SG2SS0VMC0Z	6038707
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	¼'' NPT	Without seal	0 °C ... +80 °C	0 bar ... 16 bar	≤ ± 0.5 % of the span	PBT-AB016AN1SS0A-MA0Z	6041255
		G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 25 bar	≤ ± 1 % of the span	PBT-AB025SG1SSNAMA0Z	6038691
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 25 bar	≤ ± 1 % of the span	PBT-AB025SG1SSN-VMC0Z	6038692
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 25 bar	≤ ± 1 % of the span	PBT-AB025SG2SS0A-MA0Z	6038708
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 25 bar	≤ ± 1 % of the span	PBT-AB025SG2SS0VMC0Z	6038709
4 mA ... 20 mA	L-connector acc. to DIN 175301-803 A, IP65	G ¼ A according to DIN 3852-E	FPM/FKM	0 °C ... +80 °C	0 bar ... 1 bar	≤ ± 0.5 % of the span	PBT-AB1X0AG1SS-FALA0Z	6039480
	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–40 °C ... +100 °C	0 bar ... 1 bar	≤ ± 1 % of the span	PBT-AB1X-0SG1SENAMA0Z	6039730
				0 °C ... +80 °C	0 bar ... 1 bar	≤ ± 1 % of the span	PBT-AB1X-0SG1SSNAMA0Z	6038683
0 V ... 5 V, 3-wire	L-connector acc. to DIN 175301-803 A, IP65	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 1 bar	≤ ± 1 % of the span	PBT-AB1X-0SG1SSNULA0Z	6039647
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 1 bar	≤ ± 1 % of the span	PBT-AB1X0SG1SSN-VMC0Z	6038684
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 1 bar	≤ ± 1 % of the span	PBT-AB1X0SG2SS0A-MA0Z	6038700
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 1 bar	≤ ± 1 % of the span	PBT-AB1X-0SG2SS0VMC0Z	6038701
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 1.6 bar	≤ ± 1 % of the span	PBT-AB1X-6SG1SSNAMA0Z	6039852
		G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 1.6 bar	≤ ± 1 % of the span	PBT-AB1X6SG2SS0A-MA0Z	6040908
		G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 2.5 bar	≤ ± 1 % of the span	PBT-AB2X-5SG1SSNAMA0Z	6038685
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 2.5 bar	≤ ± 1 % of the span	PBT-AB2X5SG1SSN-VMC0Z	6038686

Output signal	Electrical connection	Process connection	Seal	Process temperature	Measuring range	Accuracy	Type	Part no.
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 2.5 bar	≤ ± 1 % of the span	PBT-AB2X5SG2SS0A-MA0Z	6038702
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 2.5 bar	≤ ± 1 % of the span	PBT-AB2X-5SG2SS0VMC0Z	6038703
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 4 bar	≤ ± 1 % of the span	PBT-AB4X-0SG1SSNAMA0Z	6038687
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	0 °C ... +80 °C	0 bar ... 4 bar	≤ ± 1 % of the span	PBT-AB4X0SG1SSN-VMC0Z	6038688
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 4 bar	≤ ± 1 % of the span	PBT-AB4X0SG2SS0A-MA0Z	6038704
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	0 °C ... +80 °C	0 bar ... 4 bar	≤ ± 1 % of the span	PBT-AB4X-0SG2SS0VMC0Z	6038705
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–40 °C ... +100 °C	0 bar ... 6 bar	≤ ± 1 % of the span	PBT-AB6X-0SG1SENAMA0Z	6039106

PBT-CB

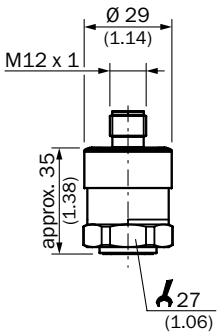
- Compound pressure
- **Process temperature:** 0 °C ... +80 °C
- **Pressure port:** Standard

Output signal	Electrical connection	Process connection	Seal	Measuring range	Accuracy	Type	Part no.
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–1 bar ... 9 bar	≤ ± 1 % of the span	PBT-CB010SG1SSNAMA0Z	6038693
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–1 bar ... 9 bar	≤ ± 1 % of the span	PBT-CB010SG1SSN-VMC0Z	6038694
4 mA ... 20 mA	L-connector acc. to DIN 175301-803 A, IP65	G ¼ female	Without seal	–1 bar ... 9 bar	≤ ± 1 % of the span	PBT-CB010SG2S-S0ALA0Z	6041082
	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	–1 bar ... 9 bar	≤ ± 1 % of the span	PBT-CB010SG2SS0A-MA0Z	6038710
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	–1 bar ... 9 bar	≤ ± 1 % of the span	PBT-CB010SG2SS0VMC0Z	6038711
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–1 bar ... 15 bar	≤ ± 1 % of the span	PBT-CB016SG1SSNAMA0Z	6038695
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–1 bar ... 15 bar	≤ ± 1 % of the span	PBT-CB016SG1SSN-VMC0Z	6038696
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	–1 bar ... 15 bar	≤ ± 1 % of the span	PBT-CB016SG2SS0A-MA0Z	6038712

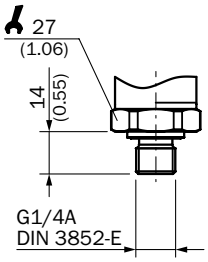
Output signal	Electrical connection	Process connection	Seal	Measuring range	Accuracy	Type	Part no.
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	–1 bar ... 15 bar	≤ ± 1 % of the span	PBT-CB016SG2SS0VMC0Z	6038713
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–1 bar ... 24 bar	≤ ± 1 % of the span	PBT-CB025SG1SSNAMA0Z	6038697
0 V ... 10 V, 3-wire	Round connector M12 x 1, 4-pin, IP67	G ¼ A according to DIN 3852-E	NBR	–1 bar ... 24 bar	≤ ± 1 % of the span	PBT-CB025SG1SSN-VMC0Z	6038698
4 mA ... 20 mA	Round connector M12 x 1, 4-pin, IP67	G ¼ female	Without seal	–1 bar ... 24 bar	≤ ± 1 % of the span	PBT-CB025SG2SS0A-MA0Z	6038714
		G ¼ A according to DIN 3852-E	NBR	–1 bar ... 0 bar	≤ ± 1 % of the span	PBT-CB1X-0SG1SSNAMA0Z	6040917
				–1 bar ... 3 bar	≤ ± 0.5 % of the span	PBT-CB4X-0AG1SSNAMA0Z	6039858

Dimensional drawings (Dimensions in mm (inch))

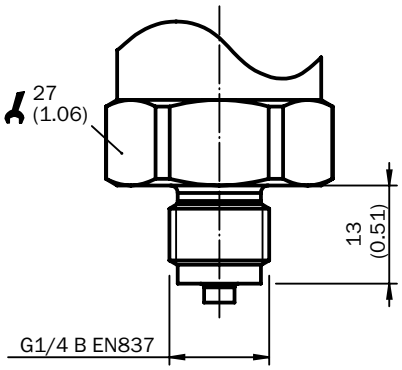
Housing with circular connector M12 x 1, IP67



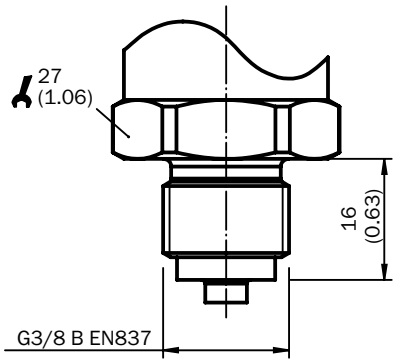
G ¼ A DIN 3852-E



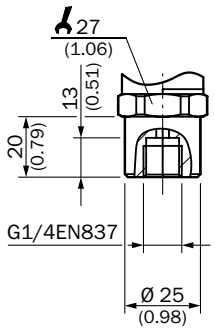
G ¼ B EN 837



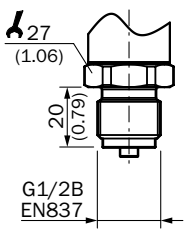
G ⅜ B EN 837



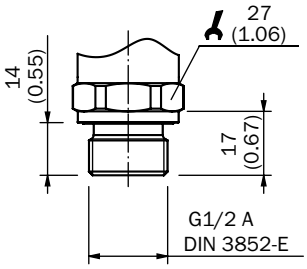
G ¼ female EN 837



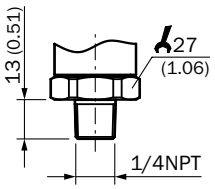
G ½ B according to EN 837



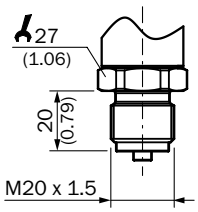
G **½** A according to DIN 3852-E



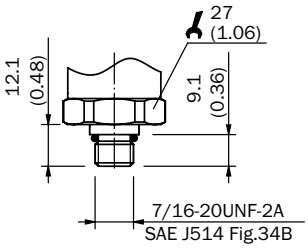
¼'' NPT



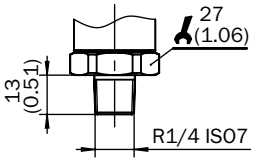
M20 x 1.5



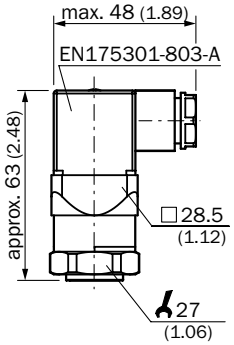
7/16" –20 UNF



R ¼ ISO 7



Housing with L-connector (DIN 175301-803 A), IP65



Recommended accessories

Mounting systems

Device protection (mechanical)

Cooling elements

	Brief description	Type	Part no.
	Cooling element, extension of the process temperature up to 150 °C. Maximum ambient temperature 30 °C. Max. process pressure 200 bar. Not suitable for pressure measurement in steam. Outer thread G 1/2, inner thread G 1/2., Stainless steel 1.4571, incl. 2 stainless steel gaskets (1.4571)	BEF-CE-G12G12-150C	5324393
	Cooling element, extension of the process temperature up to 200 . Maximum ambient temperature 30 °C. Max. process pressure 200 bar. Not suitable for pressure measurement in steam. Outer thread G 1/2, inner thread G 1/2., Stainless steel 1.4571, incl. 2 stainless steel gaskets (1.4571)	BEF-CE-G12G12-200C	5324394
	Cooling element, extension of the process temperature up to 150 °C. Maximum ambient temperature 30 °C. Max. process pressure 200 bar. Not suitable for pressure measurement in steam. Outer thread G 1/4, inner thread G 1/2., Stainless steel 1.4571, incl. 2 stainless steel gaskets (1.4571)	BEF-CE-G12G14-150C	5332155
	Cooling element, extension of the process temperature up to 200 . Maximum ambient temperature 30 °C. Max. process pressure 200 bar. Not suitable for pressure measurement in steam. Outer thread G 1/4, inner thread G 1/2., Stainless steel 1.4571, incl. 2 stainless steel gaskets (1.4571)	BEF-CE-G12G14-200C	5336706

Mounting brackets and plates

Mounting brackets

	Brief description	Type	Part no.
	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501

Connection systems

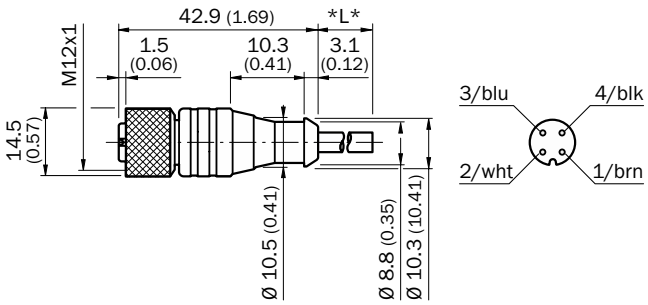
Plug connectors and cables

Connecting cables with female connector

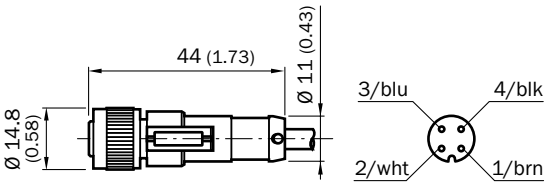
	Brief description	Cable length	Type	Part no.
 Illustration may differ	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, Ø 5 mm	2 m	DOL-1204-G02M	6009382
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 4.7 mm	2 m	DOL-1204-G02MC	6025900
 Illustration may differ	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, Ø 5 mm	5 m	DOL-1204-G05M	6009866
		10 m	DOL-1204-G10M	6010543
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, Ø 4.7 mm	10 m	DOL-1204-G10MC	6025902
 Illustration may differ	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, Ø 5 mm	15 m	DOL-1204-G15M	6010753
		20 m	DOL-1204-G20M	6034401
 Illustration may differ	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, Ø 5 mm	2 m	DOL-1204-W02M	6009383
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, Ø 4.7 mm	2 m	DOL-1204-W02MC	6025903
 Illustration may differ	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, Ø 5 mm	5 m	DOL-1204-W05M	6009867
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, Ø 4.7 mm	5 m	DOL-1204-W05MC	6025904

	Brief description	Cable length	Type	Part no.
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: Welding spark resistant, PVC, unshielded, 5 mm	5 m	DOL-1204-W05MD	6020399
 Illustration may differ	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, Ø 5 mm	10 m	DOL-1204-W10M	6010541
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, Ø 4.7 mm	10 m	DOL-1204-W10MC	6025905
 Illustration may differ	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, Ø 6 mm	15 m	DOL-1204-W15M	6036474
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, Ø 5 mm	20 m	DOL-1204-W20M	6033559

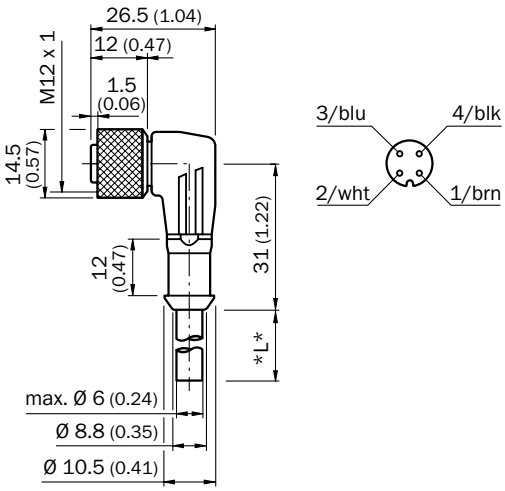
DOL-1204-G02M, DOL-1204-G05M, DOL-1204-G10M, DOL-1204-G15M, DOL-1204-G20M



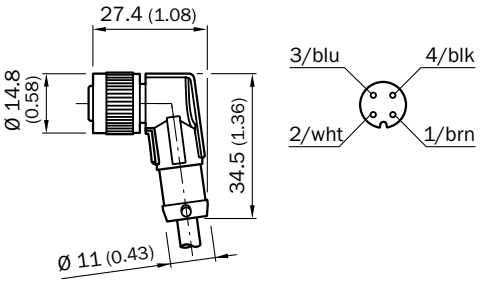
DOL-1204-G02MC
DOL-1204-G10MC



DOL-1204-W02M, DOL-1204-W05M, DOL-1204-W05MD, DOL-1204-W10M, DOL-1204-W15M, DOL-1204-W20M



DOL-1204-W02MC
DOL-1204-W05MC
DOL-1204-W10MC



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