

# PFT-FRBX10SF10HCALSSZ

PFT

PRESSURE TRANSMITTER





### Ordering information

Туре	Part no.
PFT-FRBX10SF10HCALSSZ	6067466

Other models and accessories → www.sick.com/PFT

Illustration may differ



#### Detailed technical data

#### **Features**

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Pressure unit	bar
Measuring range	0 bar 0.1 bar
Process temperature	-20 °C +150 °C
Maximum ohmic load R <sub>A</sub>	4 mA 20 mA, 2-wire ( $R_A \le (L^+ - 10 \text{ V}) / 0.02 \text{ A [Ohm]}$ ) 0 V 5 V, 3-wire ( $R_A > 5 \text{ kOhm}$ ) 0 V 10 V, 3-wire ( $R_A > 10 \text{ kOhm}$ )
Output signal	4 mA 20 mA, 2-wire
Specialty	Without

#### Mechanics/electronics

Process connection	G 1 B flush-mounted with O-ring
Wetted parts	Flush-mounted membrane: Stainless steel 1.4571 with NBR 0-ring or FKM 0-ring (FKM with integrated cooling element) $$
Internal transmission fluid	Synthetic oil (Not available for version with standard membrane for pressure ranges > 25 bar)
Pressure port	Front-flush membrane
Housing material	Stainless steel 1.4571
Connection type	L-connector (DIN EN 175301-803 A)
Supply voltage	10 V DC 30 V DC
Electrical safety	Overvoltage protection: 36 V DC Short-circuit protection: Q <sub>A</sub> towards M Reverse polarity protection: L <sup>+</sup> to M Protection class: III
Dielectric strength	$500\ V$ DC, NEC Class $02$ power supply (low voltage and low current max. $100\ VA$ even in the event of a fault)
CE-conformity	Pressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3
Weight sensor	Approx. 200 g

<sup>1)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

Seal	FPM/FKM
Enclosure rating	IP65 <sup>1)</sup>
Protection class III	✓
МТТБ	403 years

<sup>&</sup>lt;sup>1)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

#### Performance

Non-linearity	$\leq$ $\pm$ 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	$\leq$ ± 0.5 % of the span
Non-repeatability	$\leq$ ± 0.1 % of the span
Response time (10 % 90 %)	$\leq$ 1 ms $\leq$ 10 ms at medium temperatures below < -30 $^{\circ}$ C for pressure ranges up to 25 bar or with flush-mounted membrane
Long-term drift/one-year stability	$\leq$ ± 0.2 % of span (at reference conditions)
Temperature coefficient in rated temperature range	Mean TC of zero: $\leq$ 0.2 $\%$ of span / 10 K (< 0.4 $\%$ for pressure ranges $\leq$ 0.25 bar) Mean TC of span $\leq$ 0.2 $\%$ of span / 10 K
Rated temperature range	0 °C +80 °C
Service life	Minimum 10 Mio. load cycles

#### Ambient data

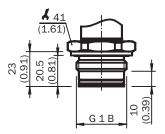
Ambient temperature	-20 °C +80 °C			
Storage temperature	–20 °C +100 °C, with flush-mounted membrane and cooling element –20 °C +100 °C			
Shock load	1000 g according to IEC 60068-2-27 (mechanical shock) 400 g according to IEC 60068-2-27 (mechanical shock) for version with integrated cooling element			
Vibration load	20 g according to IEC 60068-2-6 (vibration under resonance) 10 g according to IEC 60068-2-6 (vibration undencr resonae) for version with integrated cooling element			

#### Classifications

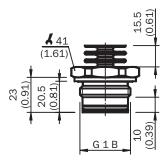
eCl@ss 5.0	27200614
eCl@ss 5.1.4	27200614
eCl@ss 6.0	27200614
eCl@ss 6.2	27200614
eCl@ss 7.0	27200614
eCl@ss 8.0	27200614
eCl@ss 8.1	27200614
eCl@ss 9.0	27200614
eCl@ss 10.0	27200614
eCl@ss 11.0	27200614
eCl@ss 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

#### Dimensional drawing (Dimensions in mm (inch))

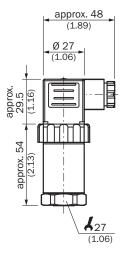
#### G 1 B without cooling section



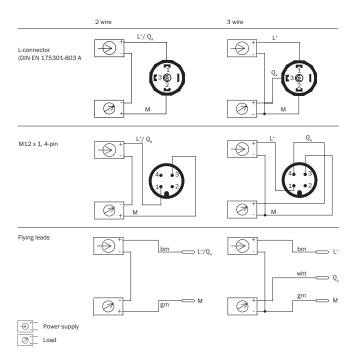
G 1 B with cooling section



Housing with L-connector (DIN EN 175301-803 A)



## Connection type



#### Recommended accessories

Other models and accessories → www.sick.com/PFT

	Brief description	Туре	Part no.
Flanges			
	Weld-in flange/weld-in socket for articles with flush-mounted membrane, process connection G 1 B, Stainless steel 1.4571 $$	BEF-FL- 316G10-B0PH	5322450
Mounting brackets and plates			
Fair	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

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