

PFT-FRB1X0SF10HCV3SSZ



PRESSURE TRANSMITTER

PFT-FRB1X0SF10HCV3SSZ | PFT

PRESSURE TRANSMITTER



Ordering information

Туре	Part no.
PFT-FRB1X0SF10HCV3SSZ	6065866

Other models and accessories -> www.sick.com/PFT





Detailed technical data

Features

Medium	Liquid, gaseous	
Pressure type	Gauge pressure	
Pressure unit	bar	
Measuring range	0 bar 1 bar	
Process temperature	-20 °C +150 °C	
Maximum ohmic load R _A	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	0 V 10 V, 3-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 O-ring or FKM O-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	Flying leads, 3 m	
Supply voltage	14 V DC 30 V DC	
Electrical safety	Overvoltage protection: 36 V DC Short-circuit protection: Q_A towards M Reverse polarity protection: L^+ 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	

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.

PFT-FRB1X0SF10HCV3SSZ | PFT

PRESSURE TRANSMITTER

Seal	FPM/FKM
Enclosure rating	IP67 ¹⁾
Protection class III	\checkmark
MTTF	452 years

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Performance

Non-linearity	\leq ± 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2	
Accuracy	\leq ± 0.5 % of the span	
Non-repeatability	$\leq \pm 0.1$ % of the span	
Response time (10 % 90 %)	\leq 1 ms \leq 10 ms at medium temperatures below < –30 °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 tempera- ture 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 ele- ment	
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 cool- ing element	

Classifications

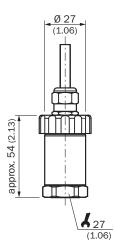
eCl@ss 5.0	27200614
eCl@ss 5.1.4	27200614
eCl@ss 6.0	27200614
eCl@ss 6.2	27200614
eCl@ss 7.0	27200614
eCl@ss 8.0	27200614
eCl@ss 8.1	27200614
eCl@ss 9.0	27200614
eCl@ss 10.0	27200614
eCl@ss 11.0	27200614
eCl@ss 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC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

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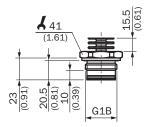
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Dimensional drawing (Dimensions in mm (inch))

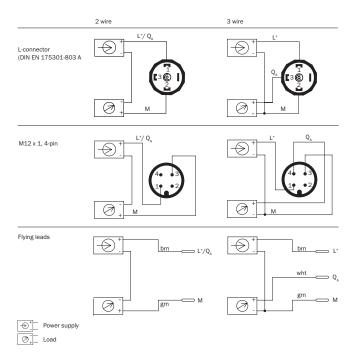
Housing with flying leads



Process connection with flush-mounted membrane, G 1 B with/without cooling element, 0 ... 0.1 up to 0 ... 1.6 bar



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				
Tax -	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."

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