

PFT-FRB060SF20SCALSSZ

PFT

PRESSURE SENSORS





Ordering information

Туре	Part no.
PFT-FRB060SF20SCALSSZ	6045157

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

Illustration may differ



Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Measuring range	0 bar 60 bar
Process temperature	-30 °C +100 °C
Output signal	4 mA 20 mA, 2-wire

Performance

Non-linearity	\leq \pm 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	$\leq \pm 0.5$ % of the span = ± 0.25 % of span (optional for pressure ranges = 0.25 bar). Applies inclusive of non-linearity, hysteresis, non-repeatability, zero point and full scale error (corresponds to error of measurement as per IEC 61298-2) calibrated in vertical installation position = ± 0.25 % of span (optional for pressure ranges = 0.25 bar). Applies inclusive of non-linearity, hysteresis, non-repeatability, zero point and full scale error (corresponds to error of measurement as per IEC 61298-2) calibrated in vertical installation position
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 100 Mio. life cycles

Mechanics/electronics

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
Electrical connection	L-connector (DIN EN 175301-803 A), IP 65
Supply voltage	10 V DC 30 V DC 14 V DC 30 V DC with output signal 0 V 10 V
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: 97/23/EC, EMC directive: 2004/108/EC, EN 61326-2-3
Weight sensor	Approx. 200 g
Seal	FPM/FKM
Enclosure rating	IP 65
Protection class III	√

Ambient data

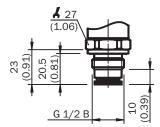
Ambient temperature	-20 °C +80 °C
Storage temperature	–40 °C +100 °C, with flush-mounted membrane and cooling element –20 °C +100 °C
Shock load	1000 g according to IEC 60068-2-27 (mechanical shock) 400 g according to IEC 60068-2-27 (mechanical shock) for version with integrated cooling element
Vibration 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

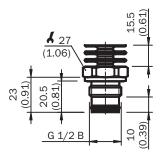
ECI@ss 5.0	27200614
ECI@ss 5.1.4	27200614
ECI@ss 6.0	27200614
ECI@ss 6.2	27200614
ECI@ss 7.0	27200614
ECI@ss 8.0	27200614
ECI@ss 8.1	27200614
ECI@ss 9.0	27200614
ETIM 5.0	EC002476
ETIM 6.0	EC002476
UNSPSC 16.0901	41112410

Dimensional drawing (Dimensions in mm (inch))

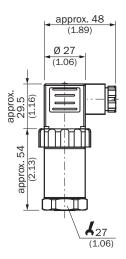
G 1/2 B without cooling section



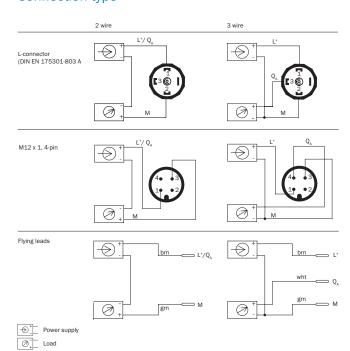
G 1/2 B with cooling section



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.	
Mounting bra	Mounting brackets and plates			
To the state of th	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501	
Plug connect	Plug connectors and cables			
No.	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 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, 2 m	DOL-1204-G02MC	6025900	
1	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866	
-	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-G05MC	6025901	
No.	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 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, 10 m	DOL-1204-G10MC	6025902	
100	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 15 m	DOL-1204-G15M	6010753	
No.	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 20 m	DOL-1204-G20M	6034401	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 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, 2 m	DOL-1204-W02MC	6025903	
3	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 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, 5 m	DOL-1204-W05MC	6025904	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 m	DOL-1204-W05MD	6020399	

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	Brief description	Туре	Part no.
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-W10M	6010541
0	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1204-W10MC	6025905
-	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 15 m	DOL-1204-W15M	6036474
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 20 m	DOL-1204-W20M	6033559

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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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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