

PFT-FRB4X0SF20SSAMSSZ



PRESSURE TRANSMITTER

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Ordering information

Туре	Part no.
PFT-FRB4X0SF20SSAMSSZ	6047902

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 4 bar	
Process temperature	-30 °C +100 °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	4 mA 20 mA, 2-wire	
Specialty	Without	
Mechanics/electronics		
Process connection	G 1/2 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	M12 round connector x 1, 4-pin	
Supply voltage	10 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.

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Seal	NBR
Enclosure rating	IP67 ¹⁾
Protection class III	\checkmark
MTTF	403 years

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.

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	-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 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	

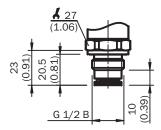
Classifications

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

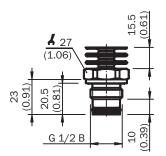
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Dimensional drawing (Dimensions in mm (inch))

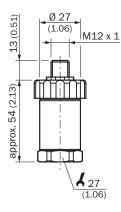
G 1/2 B without cooling section



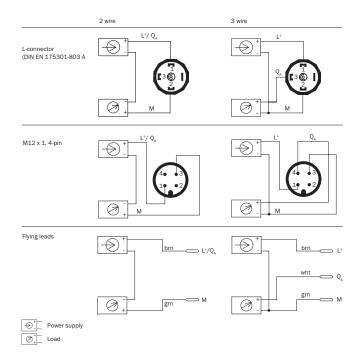
G ${}^{1\!\!/_{\!\! 2}}$ B with cooling section



Housing with circular plug-in connector M12 x 1



Connection type



Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
Fa	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501
Plug connecto	rs and cables		
	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	DOL-1204-W05MD	6020399
No.	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A14- 020UB3XLEAX	2095607
-	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14- 020VB3XLEAX	2096234
No.	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A14- 050UB3XLEAX	2095608
-	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235

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Head A: female connector. M12. 4 pin, straight, A coded Gable: Sensory Actuator cable, PUR, halogen-free, unshielded, 10 mYC2114 1000B3RLEAX2096609Head A: female connector. M12. 4 pin, straight, A coded Head A: female connector. M12. 4 pin, straight, A coded Head A: female connector. M12. 4 pin, straight, A coded Head A: female connector. M12. 4 pin, straight, A coded Head A: female connector. M12. 4 pin, straight, A coded Head A: female connector. M12. 4 pin, straight, A coded Head B: Fing leads Coble: Sensory Actuator cable, PUR, halogen-free, unshielded. 15 mYF2114 1500B3RLEAX2095610Head A: female connector. M12. 4 pin, straight, A coded Head B: Fing leads Coble: Sensory Actuator cable, PUR, halogen-free, unshielded. 20 mYF2114 200B3RLEAX2095611 200B3RLEAX2095611 200B3RLEAX2095611 200B3RLEAX2095611 200B3RLEAX2095611 200B3RLEAX2095611 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX2095615 200B3RLEAX20956766 200B3RLEAX2095766 200B3RLEAX2095766 200B3RLEAX2095766 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957767 200B3RLEAX20957769 200B3RLEAX209		Brief description	Туре	Part no.
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Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m050UB3XLEAXHead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- 050VB3XLEAX2095897Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 mYG2A14- 100VB3XLEAX2095898Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 mYG2A14- 150UB3XLEAX2095769Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 mYG2A14- 150UB3XLEAX2096213Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 mYG2A14- 150VB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 mYG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYG2A14- 200UB3XLEAX2096214Head A: female connector, M12, 4-pin, angled, A-coded Head A: female conn	*	Head B: Flying leads		2095895
Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m050VB3XLEAXHead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mVG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mVG2A14- 100VB3XLEAX2095898Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 mVG2A14- 150UB3XLEAX2095769Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mVG2A14- 150UB3XLEAX2096213Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 15 mVG2A14- 150UB3XLEAX2096213Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 15 mVG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mVG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mVG2A14- 200UB3XLEAX2096214Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mVG2A14- 200VB3XLEAX2096214		Head B: Flying leads		2095767
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m100UB3XLEAX2095898Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 mYG2A14- 100VB3XLEAX2095769Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mYG2A14- 150UB3XLEAX2095769Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mYG2A14- 150VB3XLEAX2096213Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 mYG2A14- 150VB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 mYG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 mYG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYG2A14- 200UB3XLEAX2095214Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leadsYG2A14- 200VB3XLEAX2096214	*	Head B: Flying leads		2095897
Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m100VB3XLEAXHead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mYG2A14- 150UB3XLEAX2095769Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mYG2A14- 150VB3XLEAX2096213Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 mYG2A14- 150VB3XLEAX2096213Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYG2A14- 200UB3XLEAX2095214Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYG2A14- 200UB3XLEAX2096214		Head B: Flying leads		2095768
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 m150UB3XLEAXHead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 mYG2A14- 150VB3XLEAX2096213Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 mYG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYG2A14- 200UB3XLEAX2095770Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYG2A14- 200UB3XLEAX2096214	-	Head B: Flying leads		2095898
Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 m 150VB3XLEAX Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 m YG2A14- 200UB3XLEAX 2095770 Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads YG2A14- 200UB3XLEAX 2095214 Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads YG2A14- 200VB3XLEAX 2096214		Head B: Flying leads		2095769
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 m 200UB3XLEAX Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads YG2A14- 200VB3XLEAX 2096214		Head B: Flying leads		2096213
Head B: Flying leads 200VB3XLEAX		Head B: Flying leads		2095770
	-	Head B: Flying leads		2096214

PRESSURE TRANSMITTER

Brief	description	Туре	Part no.
Head	A: female connector, M12, 4-pin, angled, A-coded B: Flying leads : Sensor/actuator cable, PUR, halogen-free, unshielded, 25 m	YG2A14- 250UB3XLEAX	2095771

SICK AT A GLANCE

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