

# PFT-FRBX25SF10SSAMSSZ



**PRESSURE SENSORS** 

PRESSURE SENSORS



#### Ordering information

Туре	Part no.
PFT-FRBX25SF10SSAMSSZ	6038818

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





#### Detailed technical data

#### Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Measuring range	0 bar 0.25 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	$\leq$ ± 0.5 % of the span
Non-repeatability	$\leq \pm 0.1$ % of the span
Response time (10 % 90 %)	$\leq 1~\text{ms} \leq 10~\text{ms}$ at medium temperatures below $< -30^\circ\text{C}$ for pressure ranges up to 25 bar or with flush-mounted membrane
Long-term drift/one-year stability	$\leq \pm 0.2$ % 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. 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
Connection type	Round connector M12 x 1, 4-pin, IP67
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 <sub>A</sub> towards M Reverse polarity protection: L <sup>+</sup> to M Protection class: III

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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
Seal	NBR
Enclosure rating	IP67
Protection class III	✓

Ambient data

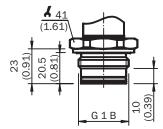
Ambient temperature	-20 °C +80 °C	
Storage temperature	-40 °C +100 °C, with flush-mounted membrane and cooling element –20 °C +100 °C	
Shock load	1000 g according to IEC 60068-2-27 (mechanical shock) 400 g according to IEC 60068-2-27 (mechanical shock) for version with integrated cooling ele- ment	
Vibration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

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

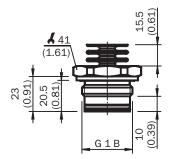
#### Dimensional drawing (Dimensions in mm (inch))

G 1 B without cooling section

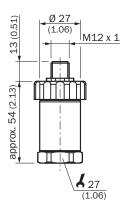


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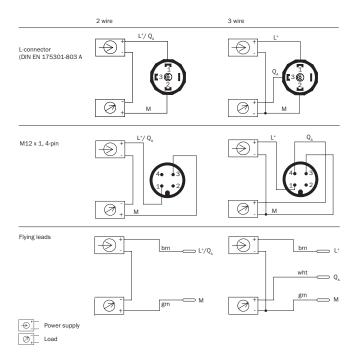
G 1 B with cooling section



Housing with circular plug-in connector M12 x 1



#### Connection type



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#### **Recommended accessories**

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

	Brief description	Туре	Part no.
Flanges			
Q	Weld-in flange/weld-in socket for articles with flush-mounted membrane, process connection G 1 B, Stainless steel 1.4571 $$	BEF-FL-316G10- BOPH	5322450
Mounting bra	ackets and plates		
Fat	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501
Plug connect	tors and cables		
	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: PVC, unshielded, 5 m	DOL-1204-W05MD	6020399
<b>N</b>	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
N <sub>0</sub>	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
N <sub>0</sub>	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YF2A14-100UB3XLEAX	2095609
<b>N</b>	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF2A14-100VB3XLEAX	2096236
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 m	YF2A14-150VB3XLEAX	2096237
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 m	YF2A14-200VB3XLEAX	2096238
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A14-020UB3XLEAX	2095766
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14-020VB3XLEAX	2095895
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A14-050UB3XLEAX	2095767
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14-050VB3XLEAX	2095897

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	Brief description	Туре	Part no.
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YG2A14-100UB3XLEAX	2095768
*	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG2A14-100VB3XLEAX	2095898
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 m	YG2A14-150VB3XLEAX	2096213
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 m	YG2A14-200VB3XLEAX	2096214

# SICK AT A GLANCE

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."

# WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

