

PFT-SRBX25SG2SSAAMSSZ



PRESSURE SENSORS

PFT-SRBX25SG2SSAAMSSZ | PFT

PRESSURE SENSORS



Ordering information

Туре	Part no.
PFT-SRBX25SG2SSAAMSSZ	6041278

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 0.25 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 ¼ female
Wattad parts	Standard memorane: Stainless steel 1 4571, stainless steel 1 4524 for measuring ranges >

Wetted partsStandard memrane: Stainless steel 1.4571, stainless steel 1.4534 for measuring ranges > 25 barInternal transmission fluidSynthetic oil (Not available for version with standard membrane for pressure ranges > 25 bar)Pressure portStandardHousing materialStainless steel 1.4571Connection typeM12 round connector x 1, 4-pinSupply voltageIo V DC 30 V DCElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L ⁺ to M Protection class: IIIDielectric strength500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)GesonformityPressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-23Weight sensorApprox. 200 g		
Pressure portStandardHousing materialStandardConnection typeM12 round connector x 1, 4-pinSupply voltage10 V DC 30 V DCElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L* to M Protection class: IIIDielectric strength500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)CE-conformityPressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3	Wetted parts	
Housing materialStainless steel 1.4571Connection typeM12 round connector x 1, 4-pinSupply voltage10 V DC 30 V DCElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L* to M Protection class: IIIDielectric strength500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)CE-conformityPressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3	Internal transmission fluid	Synthetic oil (Not available for version with standard membrane for pressure ranges > 25 bar)
Connection typeM12 round connector x 1, 4-pinSupply voltage10 V DC 30 V DCElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L ⁺ to M Protection class: IIIDielectric strength500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)CE-conformityPressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3	Pressure port	Standard
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	Housing material	Stainless steel 1.4571
Electrical safetyOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L* to M Protection class: IIIDielectric strength500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)CE-conformityPressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3	Connection type	M12 round connector x 1, 4-pin
Short-circuit protection: QA 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	Supply voltage	10 V DC 30 V DC
CE-conformity Pressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3	Electrical safety	Short-circuit protection: Q_A towards M Reverse polarity protection: L ⁺ to M
EMC directive: 2004/108/EC, EN 61326-2-3	Dielectric strength	
Weight sensor Approx. 200 g	CE-conformity	
	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	Without seal
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

\leq ± 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
\leq ± 0.5 % of the span
\leq ± 0.1 % of the span
\leq 1 ms \leq 10 ms at medium temperatures below $<$ –30 °C for pressure ranges up to 25 bar or with flush-mounted membrane
\leq ± 0.2 % of span (at reference conditions)
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
0 °C +80 °C
Minimum 10 Mio. load cycles
-20 °C +80 °C
-40 °C +100 °C, with flush-mounted membrane and cooling element –20 °C +100 °C
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
20 g according to IEC 60068-2-6 (vibration under resonance) 10 g according to IEC 60068-2-6 (vibration undercr resonae) for version with integrated cool- ing element

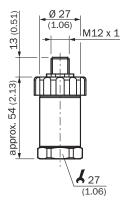
Classifications

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

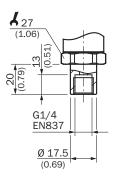
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Dimensional drawing (Dimensions in mm (inch))

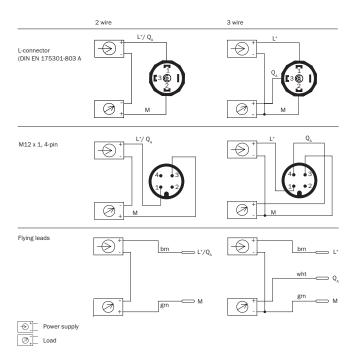
Housing with circular plug-in connector M12 x 1



G 1/4 female



Connection type



Recommended accessories

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

	Brief description	Туре	Part no.		
Mounting bra	Mounting brackets and plates				
Fai	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501		
Others					
N O	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 150UB3XLEAX	2095610		
N O	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 200UB3XLEAX	2095611		
1	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 250UB3XLEAX	2095615		
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 150UB3XLEAX	2095769		
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 200UB3XLEAX	2095770		
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 250UB3XLEAX	2095771		
•	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 050VB3XLEAX	2096235		
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 020VB3XLEAX	2095895		

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	Brief description	Туре	Part no.
N O	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 100VB3XLEAX	2096236
•	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 150VB3XLEAX	2096237
\$ 0	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 200VB3XLEAX	2096238
N 0	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 050UB3XLEAX	2095608
N O	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 100UB3XLEAX	2095609
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 020UB3XLEAX	2095766
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 050UB3XLEAX	2095767
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 100UB3XLEAX	2095768
×.	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 020UB3XLEAX	2095607
N	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 020VB3XLEAX	2096234

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	Brief description	Туре	Part no.
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 100VB3XLEAX	2095898
5	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 150VB3XLEAX	2096213
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 200VB3XLEAX	2096214
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 050VB3XLEAX	2095897

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."

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Online data sheet

