

PFT-SRB025AG1SSAAMSSZ



PRESSURE SENSORS

PRESSURE SENSORS



Ordering information

Туре	Part no.
PFT-SRB025AG1SSAAMSSZ	6086895

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





Detailed technical data

Features

MediumLiquid, gaseousPressure typeGauge pressurePressure unitBarMeasuring rangeO bar 25 barProcess temperature-30 ° C +100 ° CMaximum ohmic load RaAm 20 mA, 2-wire (Ra ≤ (L* - 10 V) / 0.02 A [Ohm]) 0 V 5V 3-Wire (Ra > 5 kOhm) 0 V 5V 3-Wire (Ra > 10 V) / 0.02 A [Ohm]) 0 V 5V 3-Wire (Ra > 10 V) / 0.02 A [Ohm]) 0 V 5V 3-Wire (Ra > 10 KOhm)Dutput signal4 mA 20 mA, 2-wire (Ra > 10 KOhm) 0 V 5V 3-Wire (Ra > 10 KOhm)Pressure some citon6 ¼ A according to DIN 3852-EProcess connection6 ¼ A according to DIN 3852-EVetted partsG ¼ A according to DIN 3852-EInternal transmission fluidSynthetic oil (Not available for version with standard membrane for pressure ranges > 25 barPressure portStandard membrane: Stanless steel 1.4571, stainless steel 1.4534 for measuring ranges > 25 barPropertion typeM12 round connector x 1, 4-pinHousing materialStanlardsSupply voltageOV C 30 V DCElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: 20, towards M Reverse polarity protection: Un to M Protection class: IIIDielectic strengthGOV VDC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)Electrical safetyDOV DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)Dielectic strengthConvertion class: IIIDielectic strengthPressure equipment directive: 2014/68/EU EVC directive: 2004/108/EC, EN 61326-2-3	Pressure typeGuige pressurePressure unitbarMeasuring range0 bar 25 barProcess temperature-30 °C +100 °CMaximum ohmic load Ra4 mA 20 mA, 2-wire (Ra ≤ (L* - 10 V) / 0.02 A [0hm]) 0 V 5 V, 3-wire (Ra > 10 k0hm)Output signal4 mA 20 mA, 2-wireSpecialtyWithoutMetchanics/electronicsProcess connection6 ¼ A according to DIN 3852-E 25 barVetted partsGaindard 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 barPressure portStandardHousing materialStainless steel 1.4571Connection typeM12 round connector x 1, 4-pinSupply voltage10 V D C 30 V D CElectrical safetySon VD C, Class O2 power supply (low voltage and low current max. 100 VA even in the Protection class: IIIDelectric strengthSov VD C, Roc Class O2 power supply (low voltage and low current max. 100 VA even in the Pressure equipment directive: 2014/68/EU			
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Measuring range0 bar 25 barProcess temperature-30 ° C +100 ° CMaximum ohmic load Ra4 mA 20 mA, 2-wire (Ra ≤ L* - 10 V) / 0.02 A [0hm]) 0 V 5 V. 3-wire (Ra > 5 K0hm) 0 V 5 V. 3-wire (Ra > 10 K0hm)Output signal4 mA 20 mA, 2-wireSpecialtyWithoutMechanics/electronics6 4/ A according to DIN 3852-EProcess connection6 4/ A according to DIN 3852-EWetted 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 barPressure portStandardHousing materialStainless steel 1.4571Supply voltage10 V D C 30 V DCElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: 20 kowards M Reverse polarity protection: 1* to M Protection class: IIIDielectric strength500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the end of a fault)Ce-conformityPressure equipment directive: 2014/68/EU EMC directive: 2014/08/EC, EN 61326-2-3	Measuring rangeO bar 25 barProcess temperature-30 °C +100 °CMaximum ohmic load Raam 20 mA, 2-wire (RA ≤ (L* - 10 V) / 0.02 A [0hm]) O V 5 V, 3-wire (RA > 5 k0hm) O V 5 V, 3-wire (RA > 10 k0hm)Output signal4 mA 20 mA, 2-wireSpecialtyWithoutMechanics/electronicsProcess connection6 ¼ A according to DIN 3852-EWetted 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 barPressure portStandardHousing materialStainless steel 1.4571Connection typeM12 round connector x 1, 4-pinSupply voltage10 V D C 30 V D CElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L* to M Protection class: IIIDielectric strengthSov V DC, C Class 02 power supply (low voltage and low current max. 100 VA even in the rotection class: IIICharlengthFressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3	Pressure type	Gauge pressure	
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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	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: 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	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	Supply voltage	10 V DC 30 V DC	
event of a fault) CE-conformity Pressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3	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	EMC directive: 2004/108/EC, EN 61326-2-3	Dielectric strength		
	Weight sensor Approx. 200 g	CE-conformity		
Weight sensor Approx. 200 g		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.

PRESSURE SENSORS

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

Non-linearity ≤ ± 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 Accuracy ≤ ± 0.25 % of the span Non-repeatability ≤ ± 0.1 % of the span Response time (10 % 90 %) ≤ 1 ms ≤ 10 ms at medium temperatures below < -30 °C for pressure ranges up to 25 with flush-mounted membrane Long-term drift/one-year stability ≤ ± 0.2 % of span (at reference conditions) Temperature coefficient in rated temperature solutions Mean TC of zero: ≤ 0.2 % of span / 10 K (< 0.4 % for pressure ranges ≤ 0.25 bar) Mean TC of span ≤ 0.2 % of span / 10 K Rated temperature range 0 °C +80 °C	
Non-repeatability ≤ ± 0.1 % of the span Response time (10 % 90 %) ≤ 1 ms ≤ 10 ms at medium temperatures below < -30 °C for pressure ranges up to 25 with flush-mounted membrane	
Response time (10 % 90 %) ≤ 1 ms ≤ 10 ms at medium temperatures below < -30 °C for pressure ranges up to 28 with flush-mounted membrane	
with flush-mounted membrane Long-term drift/one-year stability ≤ ± 0.2 % of span (at reference conditions) Temperature coefficient in rated tempera- ture range Mean TC of zero: ≤ 0.2 % of span / 10 K (< 0.4 % for pressure ranges ≤ 0.25 bar) Mean TC of span ≤ 0.2 % of span / 10 K	
Temperature coefficient in rated temperature rangeMean TC of zero: < 0.2 % of span / 10 K (< 0.4 % for pressure ranges < 0.25 bar)ture rangeMean TC of span < 0.2 % of span / 10 K	5 bar or
ture range Mean TC of span ≤ 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 +1	00 °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 comment	ling ele-
Vibration load 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 integrate ing element	

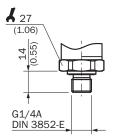
Classifications

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

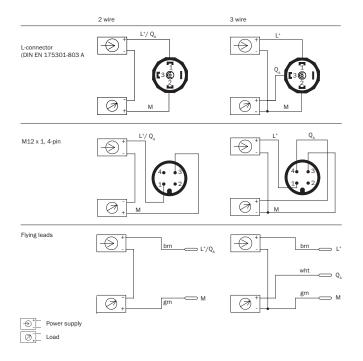
PRESSURE SENSORS

Dimensional drawing (Dimensions in mm (inch))

G ¼ A DIN 3852-E



Connection type



Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brac	Mounting brackets and plates			
Fat	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501	

PFT-SRB025AG1SSAAMSSZ | PFT PRESSURE SENSORS

	Brief description	Туре	Part no.
Others			
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: 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 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, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 200UB3XLEAX	2095611
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: 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
*	 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
•	 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

PRESSURE SENSORS

	Brief description	Туре	Part no.
•	 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
	 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
×.	 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
•	 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
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
**	 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

PRESSURE SENSORS

	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: 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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