

PBS-RMX60SG1SSFAMA0Z PBS



PRESSURE SENSORS

PBS-RMX60SG1SSFAMA0Z | PBS

PRESSURE SENSORS



Ordering information

Туре	Part no.
PBS-RMX60SG1SSFAMA0Z	6048270

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

Illustration may differ



Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Measuring range	0 MPa 0.6 MPa
Process temperature	-20 °C +85 °C
Zero point adjustment	Max. + 3 % of span
Output signal	2 x PNP
Rotatable housing	
Display	
Performance	
Non-linearity	\leq \pm 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	\leq ± 1 % of the span Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement as per IEC 61298-2)
Setting accuracy of switching outputs	\leq ± 0.5 % of span
Response time	3 ms
Long-term drift/one-year stability	\leq 0.2 % of the span according to IEC 61298-2
Temperature coefficient in rated tempera- ture range	Mean TC of zero point: \leq 0.2% of span / 10 K, 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	
Process connection	G ¼ A according to DIN 3852-E
Wetted parts	Pressure connection: stainless steel 316L Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stain- less steel 13-8 PH)
Internal transmission fluid	Silicone oil (only with pressure ranges < 0 bar 10 bar and \leq 0 bar abs 25 bar abs)
Pressure port	Standard

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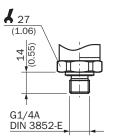
Ambient temperature-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidity≤ 90 %Shock loadVibration load		
Apply votage Average Power consumption Max. 350 mA / 570 mA (incl. switching current) Electrical safety Max. 350 mA / 570 mA (incl. switching current) Electrical safety Sol V DC Cf-conformity Sol V DC Veght sensor Approx. 200 g Seal FKM/FPM Enclosure rating P67 Protection class III Ambient data Ambient data Storage temperature -20 °C +80 °C Relative humidity sol % Storage temperature -20 °C +80 °C Cless Store -20 °C +80 °C Storage temperature -20 °C +80 °C Cless Store -20 °C +80 °C Cless Store -20 °C +80 °C Cless Store -20 °C +80 °C	Housing material	Lower body: stainless steel 304, Plastic head: PC + ABS, Buttons: TPE-E, Display window: PC
Power consumption Axx. 350 mA / 570 mA (incl. switching current) Total current consumption Max. 350 mA / 570 mA (incl. switching current) Electrical safety Solv DC Electrical safety Solv DC CE-conformity Solv DC Weight sensor Aprox. 200 g Seal FKM/FPM Enclosure rating P67 Protection class III Ambient data Ambient data Storage temperature -01 °C +80 °C Solv DC Storage temperature -20 °C +80 °C Cless 5.0 -21 °C +80 °C Storage temperature -21 °C +80 °C	Electrical connection	Round connector M12 x 1, 4-pin, IP 67
Total current consumptionMax.350 mA / 570 mA (incl. switching current)Electrical safety500 VDCInsolation voltage500 VDC@EconformitySinger culpiment directive: This instrument is a pressure accessory as defined by the directive: 2004/108/EC, EN 61326-2-3Weight sensorAprox.200 gSealFKM/FPMEnclosure ratingP67Protection class IIIAmbient data-20 °C +80 °CStorage temperature-20 °C +80 °CSock load-20 °C +80 °CYoterton class-20 °C +80 °CRelative humidity-20 °C +80 °CStorage temperature-20 °C +80 °CStorage temperature-20 °C +80 °CYoterton class-20 °C +80 °CEledes 5.0-20 °C +80 °CEledes 5.1-20 °C +80 °CEledes 5.1-20 °C +80 °CEledes 5.1-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 5.1-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.2-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.2-21 °C +80 °CEledes 7.2-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.2-21 °C +80 °CEledes 6.1-21 °C +80 °CEledes 6.2 <th>Supply voltage</th> <th></th>	Supply voltage	
Electrical safetyInstantion of the second secon	Power consumption	
Isolation voltage SOV DC CF-conformity Presure equipment directive: This instrument is a pressure accessory as defined by the directive: 2004/108/EC, EN 61326-23 Weight sensor Aprox. 200 g Sal FMW/FPM Enclosure rating Pro7 Protection class III Ambient temperature - Ambient temperature -20 °C +80 °C Relative humidity -20 °C +80 °C Protection class III -20 °C +80 °C Relative humidity -20 °C +80 °C Protection class -20 °C +80 °C Relative humidity -20 °C +80 °C Storage temperature -20 °C +80 °C Class FL -20 °C +80 °C Storage temperature	Total current consumption	Max. 350 mA / 570 mA (incl. switching current)
GE-conformity Pressure equipment directive: This instrument is a pressure accessory as defined by the directive: 2004/108/EC, EN 61326-2-3 Weight sensor Approx. 200 g Seal FKM/FPM Enclosure rating IP 67 Protection class III ✓ Ambient data -20 °C +80 °C Ambient data -20 °C +80 °C Storage temperature -20 °C +80 °C	Electrical safety	
Weight sensorkive 97/23/EC, EMC directive: 2004/108/EC, EN 61326-2-3Weight sensorApprox. 200 gSealFKM/FPMEnclosure ratingIP 67Protection class IIIAmbient dataAmbient data-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidity-20 °C +80 °CShock load-20 °C +80 °CVibration load-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidity-20 °C +80 °CStorage temperature-20 °C +80 °CClassifications-20 °C +80 °CEfcless 5.0-21 °T.11	Insolation voltage	500 V DC
Seal FKM/FPM Findosure rating IP 67 Protection class III ✓ Ambient data ✓ Ambient temperature -20 °C +80 °C Storage temperature -20 °C +80 °C Relative humidity ≤ 90 % Shock load ≤ 90 % Vibration load Classifications ≤ 7371814 Ecless 5.0 27371814 Ecless 6.2 27371814 Ecless 6.2 27371814 Ecless 7.0 27371814 Ecless 8.0 27371814 Ecless 8.1 27371814 Ecless 9.0	CE-conformity	
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Protection class IIIImage: Class IIIAmbient dataAmbient temperature-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidity>90 %Stock load>90 %Vibration load-20 °C +80 °CClassifications-20 °C +80 °CECless 5.027371814ECless 6.027371814ECless 6.227371814ECless 7.027371814ECless 8.127371814ECless 8.127371814ECless 9.027371814ECless 9.027371814ETIM 5.0Cioo243ETIM 6.0Cioo243	Seal	FKM/FPM
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Ambient temperature-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidityShock loadVibration loadClassificationsEcless 5.027371814Ecless 6.027371814Ecless 6.227371814Ecless 6.227371814Ecless 8.027371814Ecless 8.127371814Ecless 8.127371814Ecless 8.127371814Ecless 8.127371814Ecless 8.127371814Ecless 8.127371814Ecless 8.127371814Ecless 8.127371814Ecless 8.127371814Ecless 9.027371814Ecless 9.027371814 </th <th>Protection class III</th> <th>1</th>	Protection class III	1
Storage temperature-0°C+80°CRelative humidity-90%Shock load-90%Vibration load-Vibration load-Classifications-ECless 5.1.47371814ECless 6.0-ECless 6.1-ECless 6.2-ECless 7.0-ECless 8.1-ECless 8.1-ECless 9.0-ECless 9.0-ETIM 5.0-ETIM 5.0-ETIM 6.0-	Ambient data	
Relative humidity ≤ 90 % Shock load Vibration load Classifications Ecl@ss 5.0 27371814 Ecl@ss 5.1.4 27371814 Ecl@ss 6.0 27371814 Ecl@ss 6.2 27371814 Ecl@ss 7.0 27371814 Ecl@ss 8.0 27371814 Ecl@ss 8.1 27371814 Ecl@ss 8.1 27371814 Ecl@ss 9.0	Ambient temperature	-20 °C +80 °C
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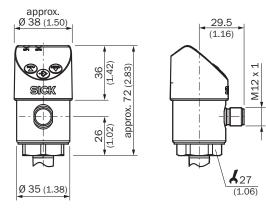
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Dimensional drawing (Dimensions in mm (inch))

G ¼ A DIN 3852-E





Connection type

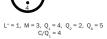
2 switching outputs/ 1 switching output + 1 analog output M12 x 1, 4-pin





M12 x 1, 5-pin 2 switching outputs + 1 analog output





(1) L^+ : Positive supply connection

- ② M: Negative supply connection
- ③ Q₁: Switching output 1
- ④ C/Q1: With IO-Link: Communication/ switching output 1
- ⑤ Q₂: Switching output 2
- 6 Q_A: Analog output

Recommended accessories

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

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

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	Brief description	Туре	Part no.
Plug connecto	ors and cables		
	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
	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
	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
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 15 m	DOL-1204-G15M	6010753
	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
	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
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-W10M	6010541
~	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

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Brief description	Туре	Part no.
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

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

