

PBS-AB1X6SG2SS0BMA0Z PBS



PRESSURE SENSORS

PBS-AB1X6SG2SS0BMA0Z | PBS

PRESSURE SENSORS



Ordering information

Туре	Part no.
PBS-AB1X6SG2SS0BMA0Z	6054091

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

Illustration may differ



Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Absolute pressure
Measuring range	0 bar 1.6 bar
Process temperature	-20 °C +85 °C
Zero point adjustment	Max. + 3 % of span
Output signal	1 x PNP + 4 mA 20 mA
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 female
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)

Pressure port

PBS-AB1X6SG2SS0BMA0Z | PBS PRESSURE SENSORS

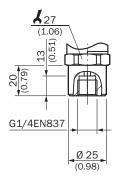
Housing material Lower body: stainless steel 304. Plastic head: PC + ABS, Buttons: TPEE, Display window: PC Electrical connection Round connector M12 x 1, 4 pin, IP 67 Supply voltage Automatic and antipation of the state of		
Supply voltagePower consumptionTotal current consumptionBicolation voltageCE-conformityWeight sensorApprox. 200 gSealEnclosure ratingPotection class III-Ambient dataStorage temperatureSolo % CCRelative humidity9/0%Storage temperature20%Storage temperature20%Storage temperature20%Storage temperature20%Storage temperature20%Storage temperature20%Storage temperature20%Storage temperature21%Storage temperatureStorage temperatureStorage temperatureStorage temperature<	Housing material	Lower body: stainless steel 304, Plastic head: PC + ABS, Buttons: TPE-E, Display window: PC
Power consumptionMax. 350 mA / 570 mA (incl. switching current)Electrical safetyMax. 350 mA / 570 mA (incl. switching current)Electrical safety500 VDCCeconformityS00 VDCCEconformityPressure equipment directive: This instrument is a pressure accessory as defined by the directive: 2004/108/EC, EN 61326-2-3Weight sensorAprox. 200 gSealWithout sealEnclosure ratingP 67Protection class IIIAmbient tage-20 °C+80 °CStorage temperature-20 °C+80 °CStora	Electrical connection	Round connector M12 x 1, 4-pin, IP 67
Total current consumptionMax. 350 mA / 570 mA (incl. switching current)Electrical safety500 V DCInsolation voltage500 V DCØE-conformityPressure equipment directive: This instrument is a pressure accessory as defined by the directive: 97/23 / EC, EM 61326-2-3Weight sensorApprox. 200 gSealWithout sealEnclosure ratingIP 67Protection class IIIProtection class IIIAmbient data-20 °C +80 °CStorage temperature-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidity90 %Stock Icad-20 °C +80 °CVibration Icad-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidity90 %Stock Icad-20 °C +80 °CVibration Icad-20 °C +80 °CRelative humidity90 %Stock Icad-20 °C +80 °CClassifications-20 °C +80 °CEffess 5.1.427371814Effess 5.1.427371814Effess 6.027371814Effess 6.127371814Effess 6.227371814Effess 6.127371814Effess 6.127371814Effess 9.027371814Effess 9.027371814Effess 9.027371814Effess 9.027371814Effess 9.027371814Effess 9.027371814Effess 9.027371814Effess 9.027371814Effess 9.027371814 <th>Supply voltage</th> <th></th>	Supply voltage	
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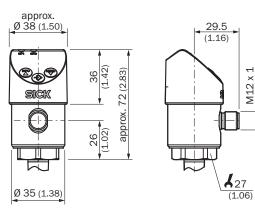
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PRESSURE SENSORS

Dimensional drawing (Dimensions in mm (inch))

G ¼ female EN 837





Connection type

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



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



- (1) L^+ : Positive supply connection
- ② M: Negative supply connection
- \bigcirc Q₁: Switching output 1
- O 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

Mounting brackets and mounting plates

Туре

Part no.

PBS-AB1X6SG2SS0BMA0Z | PBS PRESSURE SENSORS

Nouring bracker for simple and stable wall mounting of pressure sensors with 27 mmEEFFLALLPRS-HLDR\$322501Processing of the sensor sensor with 27 mmDol-1204-602M6009832Object of the sensor sensor with 27 mmDol-1204-602M6009832Object of the sensor sensor with 27 mmDol-1204-602M6009832Object of the sensor sensor with 27 mmDol-1204-602M6009868Object of the sensor sensor with 27 mmDol-1204-602M6009868Object of the sensor sensor with 27 mmDol-1204-602M6009868Object of the sensor sensor with 27 mmDol-1204-605M6005801Object of the sensor sensor with 27 mmDol-1204-605M6005803Object of the sensor sensor with 27 mmDol-1204-605M6005803Object of the sensor sensor with 27 mmDol-1204-605M6005803Object of the sensor sensor with 27 mmDol-1204-402M6009833Object of the sensor sensor with 27 mmDol-1204-W02M6009833Object of the sensor sensor with 27 mmDol-1204-W02M6009833Object of the sensor sensor with 27 mmDol-1204-W02M60		Brief description	Туре	Part no.	
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Head 8: cable Cable: PVC, unshielded, 2 mDOL 1204-G02MC6025900Head A: fernale connector, M12, 4 pin, straight Head B: cable Cable: drag chain use, PUR, halogen free, unshielded, 2 mDOL 1204-G05ML6009866Head A: fernale connector, M12, 4 pin, straight Head B: cable Cable: Cable: Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL 1204-G05ML6025901Head A: fernale connector, M12, 4 pin, straight Head B: cable Cable: PVC, unshielded, 10 mDOL 1204-G05ML6025902Head A: fernale connector, M12, 4 pin, straight Head B: cable Cable: Cable: Cable	Plug connect	Plug connectors and cables			
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Head B: cable Cable: PVC, unshielded, 5 mD0L:1204-G05MC6025901Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 mD0L:1204-G05MC6025902Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 mD0L:1204-G10MC6025902Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 mD0L:1204-G10MC6025902Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 15 mD0L:1204-G10MC6025902Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 15 mD0L:1204-G10MC6034401Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 20 mD0L:1204-G10M6034801Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 2 mD0L:1204-W02MC6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mD0L:1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mD0L:1204-W02MC6009867Head A: female connector, M12, 4-pin, angled Head B: cable Cable: rPVC, unshielded, 5 mD0L:1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: rdg chain use, PUR, halogen-free, unshielded, 5 mD0L:1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: rdg chain use, PUR, halogen-free, unshielded, 5 mD0L:1204-W05MD6025904Head A: female connector, M12, 4-pin,		Head B: cable	DOL-1204-G02MC	6025900	
Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-G10M6010543Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-G10M6025902Head A: female connector, M12, 4-pin, straight Head B: cable Cable: VC, unshielded, 15 mDOL-1204-G10M6025902Head A: female connector, M12, 4-pin, straight Head B: cable Cable: VC, unshielded, 15 mDOL-1204-G15M6010753Head A: female connector, M12, 4-pin, straight Head B: cable Cable: VC, unshielded, 20 mDOL-1204-G20M6034401Head A: female connector, M12, 4-pin, straight Head B: cable Cable: VC, unshielded, 20 mDOL-1204-W02M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: VC, unshielded, 2 mDOL-1204-W02M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: VC, unshielded, 2 mDOL-1204-W02M6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: VC, unshielded, 2 mDOL-1204-W02M6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: TVC, unshielded, 5 mDOL-1204-W05M6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: VC, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12		Head B: cable	DOL-1204-G05M	6009866	
Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-G10MC6025902Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 mDOL-1204-G15M6010753Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 15 mDOL-1204-G15M6010753Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 20 mDOL-1204-G20M6034401Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 20 mDOL-1204-W02M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDOL-1204-W02M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDOL-1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10M6010541Head A: female connector, M12, 4-pin, angl		Head B: cable	DOL-1204-G05MC	6025901	
Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 mDOL-1204-G15M6010753Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 15 mDOL-1204-G15M6010753Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 20 mDOL-1204-G20M6034401Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDOL-1204-W02M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDOL-1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDOL-1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 mDOL-1204-W05MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10MC6010541Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielde	-	Head B: cable	DOL-1204-G10M	6010543	
Head B: cable Cable: PVC, unshielded, 15 mDol.1204-G20M6034401Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 20 mDol.1204-G20M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDol.1204-W02M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDol.1204-W02MC60025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 mDol.1204-W05MC6009867Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDol.1204-W05MC60025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDol.1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDol.1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDol.1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDol.1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDol.1204-W10ML6010541Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDol.1204-W10ML6025905		Head B: cable	DOL-1204-G10MC	6025902	
Head B: cable Cable: PVC, unshielded, 20 mDoL:1204-W02M6009383Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 mDoL:1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 mDoL:1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDoL:1204-W05MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDoL:1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDoL:1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDoL:1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDoL:1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDoL:1204-W05MD6010541Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDoL:1204-W10MC6025905Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDoL:1204-W10MC6025905	~	Head B: cable	DOL-1204-G15M	6010753	
Head B: cable Cable: PVC, unshielded, 2 mDOL-1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 mDOL-1204-W02MC6025903Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05M6009867Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MC6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10ML6010541Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10MC6025905	No.	Head B: cable	DOL-1204-G20M	6034401	
Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 mDOL-1204-W05M6009867Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10M6010541Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10MC6025905		Head B: cable	DOL-1204-W02M	6009383	
Head B: cable Cable: PVC, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MC6025904Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10M6010541Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10M6025905	~	Head B: cable	DOL-1204-W02MC	6025903	
Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 mDOL-1204-W05MD6020399Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10M6010541Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 mDOL-1204-W10MC6025905		Head B: cable	DOL-1204-W05M	6009867	
Head B: cable Cable: drag chain use, Welding spark resistant, PUR, halogen-free, unshielded, 5 m DOL-1204-W10M 6010541 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: PVC, unshielded, 10 m DOL-1204-W10MC 6025905	~	Head B: cable	DOL-1204-W05MC	6025904	
Head B: cable Cable: PVC, unshielded, 10 m DOL-1204-W10MC 6025905 Head A: female connector, M12, 4-pin, angled Head B: cable DOL-1204-W10MC 6025905		Head B: cable	DOL-1204-W05MD	6020399	
Head B: cable		Head B: cable	DOL-1204-W10M	6010541	
	~	Head B: cable	DOL-1204-W10MC	6025905	

PBS-AB1X6SG2SS0BMA0Z | PBS

PRESSURE SENSORS

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

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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:

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Online data sheet

