



PAC50-BGB

PAC50

PRESSURE SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
PAC50-BGB	1062959

Other models and accessories → www.sick.com/PAC50

Detailed technical data

Features

Medium	Dry compressed air
Pressure type	Gauge pressure
Measuring range	-1 bar ... 1 bar
Process temperature	0 °C ... +60 °C
Analog signal output and ohmic load R_A	Optional, 4 mA ... 20 mA / 0 V ... 10 V. Automatic detection depending on connected load or programmable. Output signals can be inverted: 20 mA ... 4 mA / 10 V ... 0 V Load resistance for current output < 600 Ohm Load resistance with current output > 3 kOhm
Zero point adjustment	Max. + 5 % of span
Output signal	PNP/NPN/Push-Pull + 4 mA ... 20 mA / 0 V ... 10 V
Display	LCD with LED backlight (green/red), can be rotated electronically by 180° Pressure display: 4 digits, 16 segments Pressure unit in display can be switched: bar, MPa, kPa, psi and inHg Update: 1,000, 500, 200, 100 ms (adjustable)
Initialization time	300 ms

Performance

Non-linearity	≤ ± 0.5 %, of span (Best Fit Straight Line, BFS) according to IEC 61298-2
Accuracy	≤ ± 1.5 % 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	≤ ± 0.2 % of span
Non-repeatability	≤ ± 0.2 % of the span
Rated temperature range	+10 °C ... +60 °C

Mechanics/electronics

Process connection	2 x G ¼ ¹⁾
Housing material	Housing: polycarbonate, Buttons: TPE, DIN rail mounting: POM, seals: NBR
Supply voltage	17 V DC ... 30 V DC

¹⁾ Bottom side: thread G ¼ female, back side: thread G ¼ female, both according to DIN ISO 1630.

²⁾ When plugged in with a suitable mating connector.

Power consumption	Max. 40 mA at L ⁺ = 24 VDC
Electrical safety	Protection class: III Overvoltage protection: 32 V DC Short-circuit protection: Q _A , Q ₁ , Q ₂ towards M and L ⁺ Reverse polarity protection: L ⁺ to M
CE-conformity	EMC directive: 2004/108/EC, EN 61326-2-3
Weight sensor	Approx. 40 g
Enclosure rating	IP 65 / IP 67 (according to IEC 60529) ²⁾
Protection class III	✓
RoHS certificate	✓
CRUus certificate	✓

¹⁾ Bottom side: thread G ¼ female, back side: thread G ¼ female, both according to DIN ISO 1630.

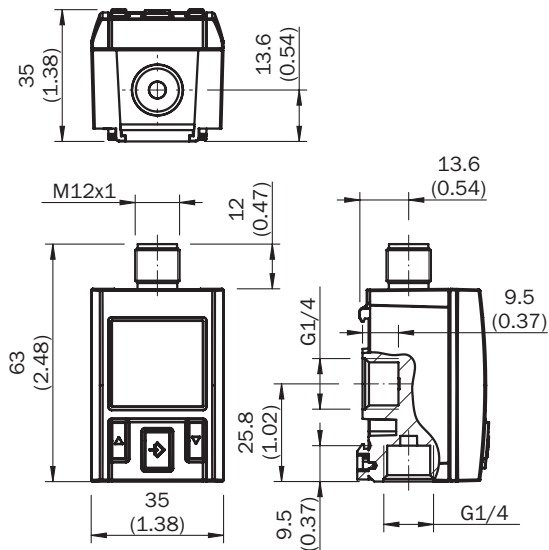
²⁾ When plugged in with a suitable mating connector.

Ambient data

Ambient temperature	0 °C ... +60 °C
Storage temperature	-20 °C ... +80 °C
Relative humidity	≤ 90 %
Shock load	Max. 30 g, xyz according to IEC 60068-2-27 (11 ms, mechanical shock)
Vibration load	Max. 5 g (10 ... 150 Hz), xyz, to DIN EN 60068-2-6

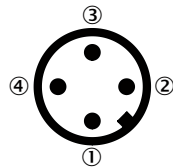
Dimensional drawing (Dimensions in mm (inch))

Bottom side: thread G ¼ female, back side: thread G ¼ female



Connection type

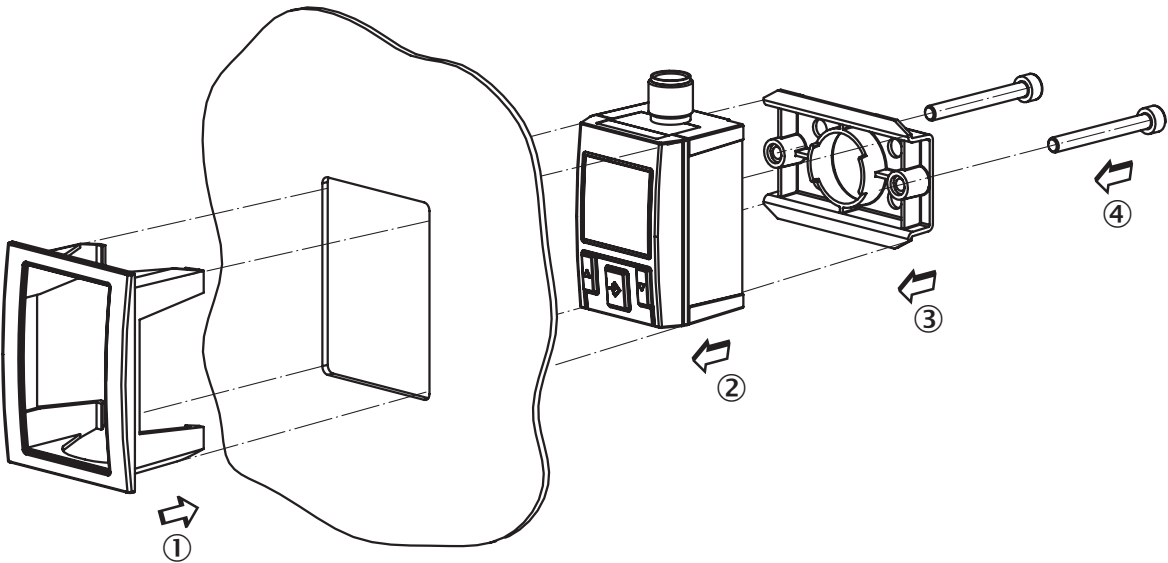
M12 round connector x 1, 4-pin



Output signals	Type code	Electrical connection	Pin assignment
2 x digital	PAC50-xxA	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, Q2 = 2
1 x digital + analog	PAC50-xxB	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, QA = 2
1 x IO-Link/digital + digital	PAC50-xxD	M12 x 1, 4 pins	L+ = 1, M = 3, C/Q1 = 4, Q2 = 2

- 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

Instruction for installation



Recommended accessories

Other models and accessories → www.sick.com/PAC50

Brief description	Type	Part no.
Mounting brackets and mounting plates		

	Brief description	Type	Part no.
	Wall-mounting kit; mounting element for wall-mounting of pressure switch PAC50, Mounting element: polycarbonate, screws: steel, zinc-coated	BEF-MA-WLM-NTS-PAC5	2069198
Terminal and alignment brackets			
	Switch panel installation kit, for installation of the PAC50 pressure switch in a switch panel. Maximum thickness of switch panel 5 mm., Panel-mounting frame and mounting element: polycarbonate, screws: steel, zinc-coated	BEF-MA-CTRLPS-PAC5	2069200

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:

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