

PAC50-FGB
PAC50

PRESSURE SENSORS





Ordering information

Туре	Part no.
PAC50-FGB	1077856

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

Illustration may differ



Detailed technical data

Features

Medium	Dry compressed air	
Pressure type	Gauge pressure	
Pressure unit	bar	
Measuring range	-1 bar 10 bar	
Overpressure safety	15 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	

Mechanics/electronics

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Process connection	2 x G 1/4 ¹⁾
Housing material	Housing: polycarbonate, Buttons: TPE, DIN rail mounting: POM, seals: NBR
Connection type	M12 round connector x 1, 4-pin
Supply voltage	17 V DC 30 V DC
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 ⁺

 $^{^{1)}}$ Bottom side: thread G $^{1\!\!/\!4}$ female, back side: thread G $^{1\!\!/\!4}$ female, both according to DIN ISO 1630.

²⁾ Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

	Reverse polarity protection: L ⁺ to M	
CE-conformity	EMC directive: 2004/108/EC, EN 61326-2-3	
Weight sensor	Approx. 40 g	
Enclosure rating	IP65 ²⁾ IP67 ²⁾	
Protection class III	✓	
RoHS certificate	✓	
cRUus certificate	✓	
MTTF	256.55 years	

 $^{^{1)}}$ Bottom side: thread G $^{1\!\!/}\!_4$ female, back side: thread G $^{1\!\!/}\!_4$ female, both according to DIN ISO 1630.

Performance

Non-linearity	\leq \pm 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	\leq ± 1.5 % of the span
Setting accuracy of switching outputs	≤ ± 0.2 % of span
Non-repeatability	≤ ± 0.2 % of the span
Rated temperature range	+10 °C +60 °C

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

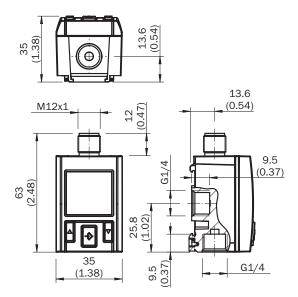
Classifications

ECLASS 5.0	27200620
ECLASS 5.1.4	27200620
ECLASS 6.0	27200620
ECLASS 6.2	27200620
ECLASS 7.0	27200620
ECLASS 8.0	27200620
ECLASS 8.1	27200620
ECLASS 9.0	27200620
ECLASS 10.0	27200620
ECLASS 11.0	27200620
ECLASS 12.0	27200620
ETIM 5.0	EC000243
ETIM 6.0	EC000243
ETIM 7.0	EC000243
ETIM 8.0	EC000243
UNSPSC 16.0901	41112409

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Dimensional drawing (Dimensions in mm (inch))

Bottom side: thread G 1/4 female, back side: thread G 1/4 female



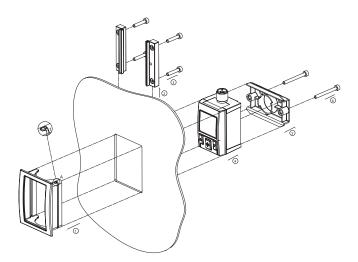
Connection type

M12 round connector x 1, 4-pin

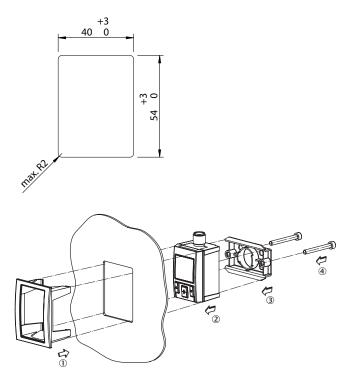


Output signals	Type code	Electrical connection	Pin assignment
2 x digital	PAC50-xxA	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, Q2 = 2
1 x digital + analog	PAC50-xxB	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, QA = 2
1 x IO-Link/digital + digital	PAC50-xxD	M12 x 1, 4 pins	L+ = 1, M = 3, C/Q1 = 4, Q2 = 2

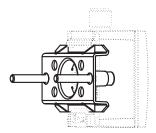
Instruction for installation



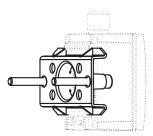
Opening in the switch panel



Mounting bracket



PRESSURE SENSORS



Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
E	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			
E	Switch panel installation set for rugged applications (shock, vibration) for installing the PAC50 pressure switch. Maximum switch panel thickness: 5 mm, Stainless steel, aluminum, plastic	BEF-MA- CTRLPX-PAC5	2099916

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