

PAC50-DCB

PAC50

PRESSURE SENSORS





Ordering information

Туре	Part no.
PAC50-DCB	1062990

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

Illustration may differ



Detailed technical data

Features

Medium	Dry compressed air
Pressure type	Gauge pressure
Measuring range	0 bar 10 bar
Process temperature	0 °C +60 °C
Analog signal output and ohmic load $\mathbf{R}_{\mathbf{A}}$	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 0hm 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	\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	\leq ± 0.2 % of the span		
Rated temperature range	+10 °C +60 °C		

Mechanics/electronics

Process connection	PIF 4 mm + 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

 $^{^{1)}}$ Bottom side: push-in fitting for 4 mm pneumatic hose, back side: thread G $^{1/4}$ female according to DIN ISO 16030.

²⁾ When plugged in with a suitable mating connector.

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 ⁺ 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 / IP67 (according to IEC 60529) ²⁾	
Protection class III	√	
RoHS certificate	√	
CRUus certificate	√	

 $^{^{1)}}$ Bottom side: push-in fitting for 4 mm pneumatic hose, back side: thread G $^{1/4}$ female according to DIN ISO 16030. $^{2)}$ When plugged in with a suitable mating connector.

Ambient data

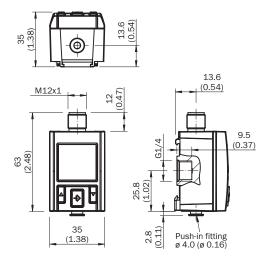
Ambient temperature	0 °C +60 °C
Storage temperature	-20 °C +80 °C
Relative humidity	≤ 90 %
Shock load	Max. 30 g, xyz according to IEC 60068-2-27 (11 ms, mechanical shock)
Vibration load	Max. 5 g (10 150 Hz), xyz, to DIN EN 60068-2-6

Classifications

ECI@ss 5.0	27371814
ECI@ss 5.1.4	27371814
ECI@ss 6.0	27371814
ECI@ss 6.2	27371814
ECI@ss 7.0	27371814
ECI@ss 8.0	27371814
ECI@ss 8.1	27371814
ECI@ss 9.0	27371814
ETIM 5.0	EC000243
ETIM 6.0	EC000243
UNSPSC 16.0901	41112409

Dimensional drawing (Dimensions in mm (inch))

Bottom side: push-in fitting for 4 mm pneumatic hose, back side: thread G 1/4 female



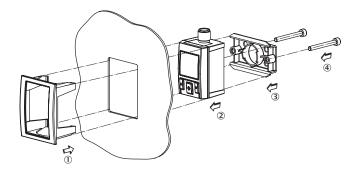
Connection type

M12 round connector x 1, 4-pin

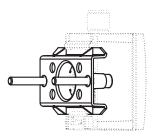


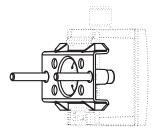
Output signals	Type code	Electrical connection	Pin assignment
2 x digital	PAC50-xxA	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, Q2 = 2
1 x digital + analog	PAC50-xxB	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, QA = 2
1 x IO-Link/digital + digital	PAC50-xxD	M12 x 1, 4 pins	L+ = 1, M = 3, C/Q1 = 4, Q2 = 2

Instruction for installation



Mounting bracket





Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brad	Mounting brackets and plates			
6	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				
Ø D	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	

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