

PAC50-DCD

PAC50

**PRESSURE SENSORS** 





## Ordering information

Туре	Part no.	
PAC50-DCD	1062992	

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 Ohm Load resistance with current output > 3 kOhm	
Zero point adjustment	Max. + 5 % of span	
Output signal	IO-Link/PNP + PNP/NPN/Push-Pull	
Diagnostics output	Switching output 2 can be set as diagnostics output	
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	≤ ± 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
Supply voltage	17 V DC 30 V DC
Power consumption	Max. 40 mA at $L^{+} = 24 \text{ VDC}$
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	✓

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

## 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

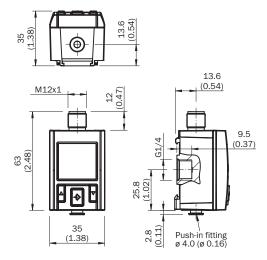
#### Classifications

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

<sup>2)</sup> When plugged in with a suitable mating connector.

## Dimensional drawing (Dimensions in mm (inch))

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



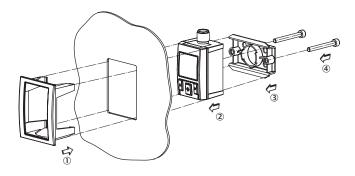
## Connection type

M12 round connector x 1, 4-pin

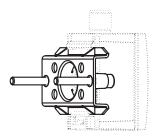


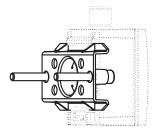
Output signals	Type code	Electrical connection	Pin assignment
2 x digital	PAC50-xxA	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, Q2 = 2
1 x digital + analog	PAC50-xxB	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, QA = 2
1 x IO-Link/digital + digital	PAC50-xxD	M12 x 1, 4 pins	L+ = 1, M = 3, C/Q1 = 4, Q2 = 2

## Instruction for installation



## Mounting bracket





#### Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
<b>O</b>	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			
<b>ED</b>	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
Modules and gateways			
	Number of IO-Link ports: 4; Communication mode: COM1/COM2; IO-Link version: IO-Link V1.0; Switching input: PNP; Supply voltage Vs, IO-Link ports: DC 24 V; Current loading: 800 mA; Data transmission rate: Max. 12 MBaud, Autobaud; Address space occupation: 1 bis 126; Connection type: Connector M12; Connection type, IO-Link ports: Connector M12, 5-pin; Suppyl voltage Vs, module: DC 18 30 V; Power consumption: Typ. 75 mA / max. 100 mA (at UL with DC 24 V), Typ. 25 mA + sensor current / max. 80	IOLSHPB-P3104R01	6039728

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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