





PRESSURE SENSORS

PAC50-BCD | PAC50

PRESSURE SENSORS



Ordering information

Туре	Part no.
PAC50-BCD	1062967

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 -1 bar ... 1 bar **Measuring range Overpressure safety** 5 bar 0 °C ... +60 °C **Process temperature** Analog signal output and ohmic load RA 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 IO-Link/PNP + PNP/NPN/Push-Pull **Output signal 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 Mechanics/electronics Process connection

Process connection	PIF 4 mm + G $\frac{1}{4}$
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 ¼ female according to DIN ISO 16030.

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.

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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 ²⁾ IP67 ²⁾
Protection class III	✓
RoHS certificate	✓
cRUus certificate	✓
MTTF	243.01 years

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

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.

Performance

Non-linearity	\leq ± 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
	$\leq \pm 1.5$ % of the span
Accuracy	
Setting accuracy of switching outputs	$\leq \pm 0.2$ % of span
Non-repeatability	$\leq \pm 0.2$ % 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

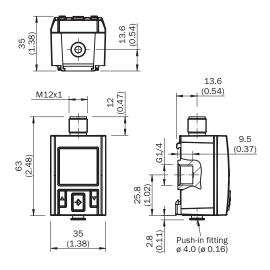
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ETIM 6.0	EC000243
ETIM 7.0	EC000243
ETIM 8.0	EC000243
UNSPSC 16.0901	41112409

Dimensional drawing (Dimensions in mm (inch))

Bottom side: push-in fitting for 4 mm pneumatic hose, back side: thread G $^{1\!\!/}_{4}$ female



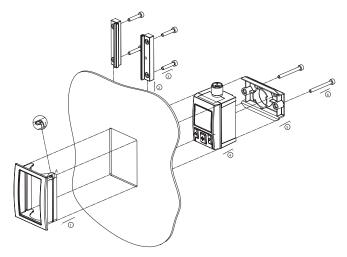
Connection type

M12 round connector x 1, 4-pin

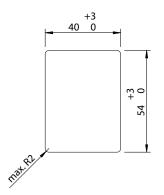


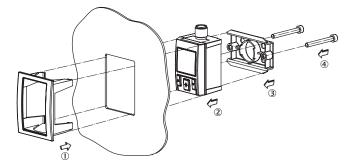
Output signals	Type code	Electrical connection	Pin assignment
2 x digital	PAC50-xxA	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, Q2 = 2
1 x digital + analog	PAC50-xxB	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, QA = 2
1 x IO-Link/digital + digital	PAC50-xxD	M12 x 1, 4 pins	L+ = 1, M = 3, C/Q1 = 4, Q2 = 2

Instruction for installation

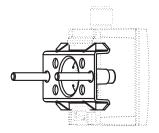


Opening in the switch panel



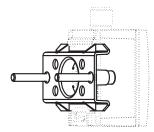


Mounting bracket



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Recommended accessories

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

	Brief description	Туре	Part no.	
Fieldbus mod	les			
	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 load- ing: 800 mA; Data transmission rate: Max. 12 MBaud, Autobaud; Address space occu- pation: 1 bis 126; Connection type: Connector M12; Connection type, IO-Link ports: Con- nector M12, 5-pin; Supply 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	
Mounting brackets and plates				
Ð	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	

Recommended services

Additional services -> www.sick.com/PAC50

	Туре	Part no.
Function Block Factory		
 Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found > here. Note: You can configure your function block at > Function Block Factory. As a login please use your SICK ID. 	Function Block Factory	On request

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."

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