

PAC50-FCA PAC50

PRESSURE SWITCH





Ordering information

Туре	Part no.
PAC50-FCA	1083765

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	2 x 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

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 VDC
Electrical safety	Protection class: III

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

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.

	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	261.31 years

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

Performance

Non-linearity	\leq \pm 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2		
Accuracy	≤ ± 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

eCl@ss 5.0	27200620
eCl@ss 5.1.4	27200620
eCl@ss 6.0	27200620
eCl@ss 6.2	27200620
eCl@ss 7.0	27200620
eCl@ss 8.0	27200620
eCl@ss 8.1	27200620
eCl@ss 9.0	27200620
eCl@ss 10.0	27200620
eCl@ss 11.0	27200620
eCl@ss 12.0	27200620
ETIM 5.0	EC000243
ETIM 6.0	EC000243
ETIM 7.0	EC000243
ETIM 8.0	EC000243

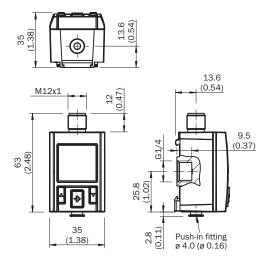
²⁾ Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

UNSPSC 16.0901

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Dimensional drawing (Dimensions in mm (inch))

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



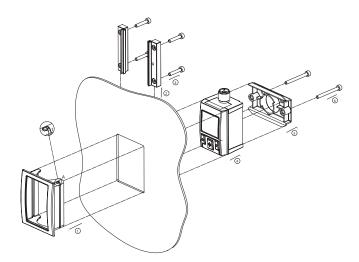
Connection type

M12 round connector x 1, 4-pin

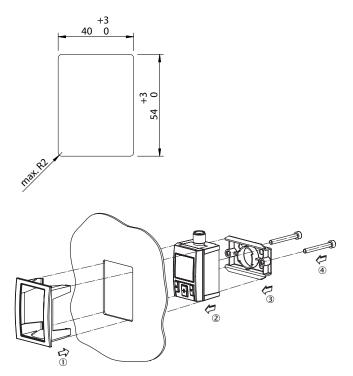


Output signals	Type code	Electrical connection	Pin assignment
2 x digital	PAC50-xxA	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, Q2 = 2
1 x digital + analog	PAC50-xxB	M12 x 1, 4 pins	L+ = 1, M = 3, Q1 = 4, QA = 2
1 x IO-Link/digital + digital	PAC50-xxD	M12 x 1, 4 pins	L+ = 1, M = 3, C/Q1 = 4, Q2 = 2

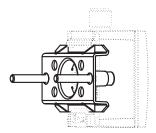
Instruction for installation



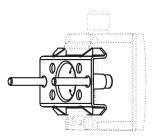
Opening in the switch panel



Mounting bracket



PRESSURE SWITCH



Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brackets and plates				
100	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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