

PAC50-AND PAC50

**PRESSURE SWITCH** 





# Ordering information

Туре	Part no.
PAC50-AND	1083722

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 0 bar
Overpressure safety	5 bar
Process temperature	0 °C +60 °C
Analog signal output and ohmic load $R_{\text{A}}$	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

# Mechanics/electronics

Process connection	1/4" NPT female <sup>1)</sup>
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 <sup>+</sup> = 24 VDC
Electrical safety	Protection class: III

<sup>&</sup>lt;sup>2)</sup> 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 <sup>2)</sup> IP67 <sup>2)</sup>
Protection class III	<b>√</b>
RoHS certificate	<b>√</b>
cRUus certificate	<b>√</b>
MTTF	243.01 years

 $<sup>^{1)}\, \</sup>text{Bottom:}\, \rlap{14}\text{"}\, \text{NPT female thread, pre-installed NPT adapter in G}\, \rlap{14}\text{ female thread; rear:}\, \textbf{G}\, \rlap{14}\text{ female thread.}$ 

#### 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

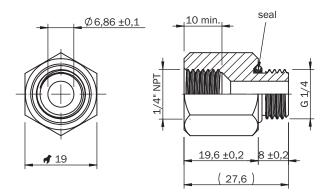
<sup>&</sup>lt;sup>2)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

UNSPSC 16.0901

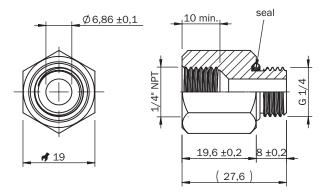
41112409

# Dimensional drawing (Dimensions in mm (inch))

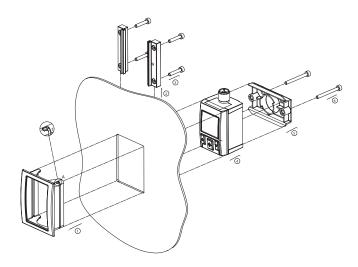
1/4" NPT female



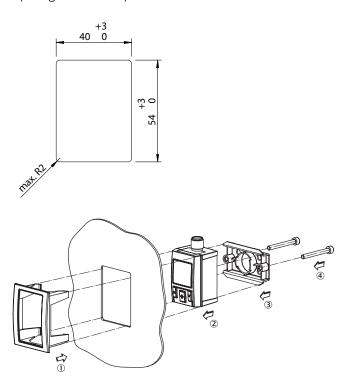
Bottom: 1/4" NPT female thread, pre-installed NPT adapter in G 1/4 female thread; rear: G 1/4 female thread



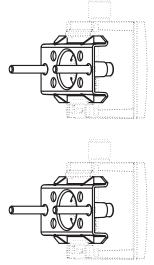
#### Instruction for installation



# Opening in the switch panel



Mounting bracket



#### Recommended accessories

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

	Brief description	Туре	Part no.
Mounting bra	Mounting brackets and plates		
<b>E</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	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		
<ul> <li>Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&amp;R. More information on the FBF can be found <a href="https://fbf.cloud.sick.com" target="_blank">here</a>.</li> <li>Note: You can configure your function block at <a href="https://fbf.cloud.sick.com" target="_blank">Function Block Factory.</a> As a login please use your SICK ID.</li> </ul>	Function Block Factory	On request

# SICK AT A GLANCE

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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."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

