





**PRESSURE SWITCH** 

PRESSURE SWITCH



#### Ordering information

Туре	Part no.
PAC50-FNC	1083737

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 ${\rm R}_{\rm A}$	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 + 4 mA 20 mA / 0 V 10 V
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	Round connector M12 x 1, 5-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>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.

PRESSURE SWITCH

	Overvoltage protection: 32 V DC Short-circuit protection: $Q_A$ , $Q_1$ , $Q_2$ towards M and L <sup>+</sup> Reverse polarity protection: L <sup>+</sup> 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	✓
RoHS certificate	✓
cRUus certificate	✓
MTTF	243.72 years

 $^{(1)}$  Bottom:  $^{1\!\!4}$  " NPT female thread, pre-installed NPT adapter in G  $^{1\!\!4}$  female thread; rear: G  $^{1\!\!4}$  female thread.

<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.

#### 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	$\leq \pm 0.2$ % of span
Non-repeatability	$\leq$ ± 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

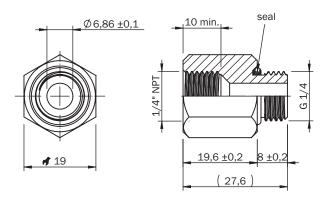
PRESSURE SWITCH

#### UNSPSC 16.0901

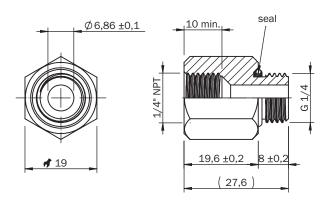
#### 41112409

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

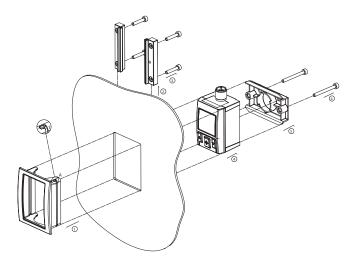
1/4" NPT female



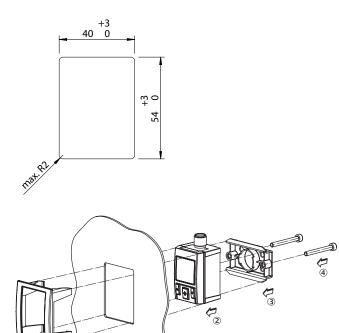
Bottom: 1/4" NPT female thread, pre-installed NPT adapter in G 1/4 female thread; rear: G 1/4 female thread



#### Instruction for installation

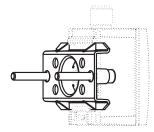


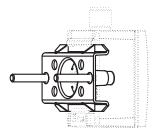
Opening in the switch panel





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PRESSURE SWITCH

#### **Recommended accessories**

Other models and accessories -> www.sick.com/PAC50

	Brief description	Туре	Part no.		
Mounting brackets and plates					
<b>B</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					
P	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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Online data sheet

