

PAC50-FGF

PRESSURE SENSORS





Ordering information

Туре	Part no.
PAC50-FGF	1086915

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	IO-Link/PNP + 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	2 x G ¾ ¹)
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 ⁺ = 24 VDC
Electrical safety	Protection class: III

 $^{^{1)}}$ Bottom side: thread G $\rlap{.}\!\!\!\!\!^{1\!\!\!\!/}$ female, back side: thread G $\rlap{.}\!\!\!\!\!^{1\!\!\!\!/}$ female, both according to DIN ISO 1630.

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	√

 $^{^{1)}}$ Bottom side: thread G $^{1\!\!/}\!_4$ female, back side: thread G $^{1\!\!/}\!_4$ female, both according to DIN ISO 1630.

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	

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	

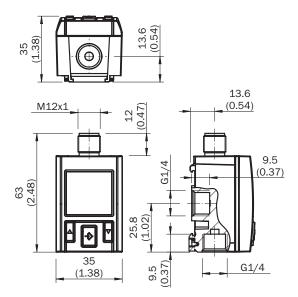
Classifications

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

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.

Dimensional drawing (Dimensions in mm (inch))

Bottom side: thread G 1/4 female, back side: thread G 1/4 female



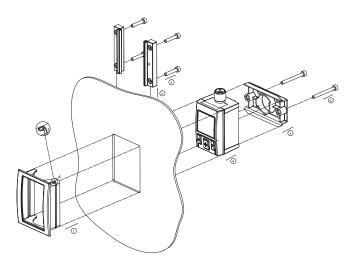
Connection type

Round connector M12 x 1, 5-pin

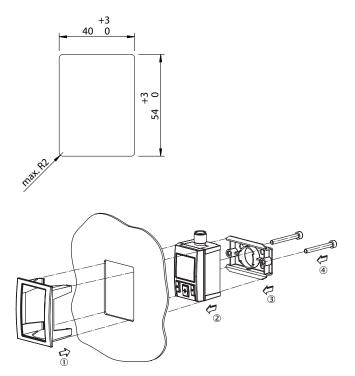


Output signals	Type code	Electrical connection	Pin assignment
2 x digital + analog	PAC50-xxC	M12 x 1, 5 pins	L+ = 1, M = 3, Q1 = 4, Q2 = 2, QA = 5
1 x IO-Link/digital + digital + analog	PAC50-xxF	M12 x 1, 5 pins	L+ = 1, M = 3, C/Q1 = 4, Q2 = 2, QA = 5

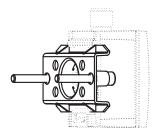
Instruction for installation



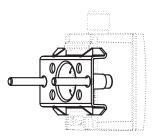
Opening in the switch panel



Mounting bracket



PRESSURE SENSORS



Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brad	Mounting brackets and plates			
E	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	

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

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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."

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