

Vacuum/Pressure Sensors PICO

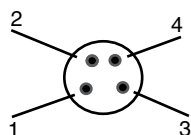
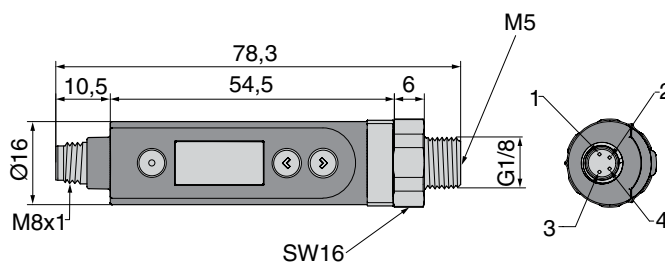
- Intelligent Sensor
- Display
- Freely programmable
 - 2 x Digital Output PNP
 - Hysteresis/comparator mode
 - NO/NC
 - Special Features
- Easy setting of values
- Small dimensions
- Robust design in IP65
- Infinitely rotatable house 360°



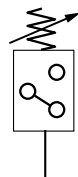
Digital

PICO is developed for use in material handling/robot applications and in the pharmaceutical industry. Double individually programmable outputs (NC/NO, hysteresis etc.).

The programming is made with the push buttons and the display. Available in pressure ranges between -1 bar to +10 bar. See next page.



Pin	Function	Cable Colour
1	Feed Voltage, Ub +	Brown
2	OUT2	White
3	0 V	Blue
4	OUT1	Black



3D CAD FILES (STEP)
 Download via:
<http://www.avac.se/en/home/>

Technical Data

Electrical Characteristics

Operating voltage, Ub	10,8 to 30 VDC, polarity protected
Current consumption	≤ 35 mA without load
Current consumption, when programming	≤ 55 mA
Outputs	2 x PNP , NO or NC
Output voltage PNP	approx. Ub -1,5 V
Max load	250 mA/output, overload protected
Output impedance	≥500Ω
Offset	1V± 0,1Volt
Hysteresis	0 to 100% (adjustable)
On/Off delay	0 to 180 s
Switching Frequency	200Hz
Repeatability	±0,2% FS
EMC	according to EU-directive 2004/108/EG*
Response Time	≤2,5 ms

Mechanical specifications

Material Housing	ABS and PC plastic
Size of body	approx Ø18 x 65mm (D x L)
Fluid connection	G1/8 externally/M5 internally, nickel plated brass
Protection class.	IP65
Electrical connection	4-pin M8, nickel plated brass

* shielded cable recommended

Environment

Operating temp.	-10 to +60 °C
Storage temp.	-20 to +85 °C
Chock	10G, XYZ
Vibration	10 to 55 Hz, 1,5 mm, XYZ, 2h
Humidity	10 to 90% RH

Indication

LED	Yellow at active output
Display	via 7 segment display

Media

Media	Filtered, dried lubricated or non lubricated compressed air neutral gases
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Designation	Overpressure safe (Intermittent)	Weight g	Order no.
Vacuum Sensor PICO, -1 to 0 bar	Max 5 bar	25	520 018 02
Vacuum/Pressure Sensor PICO, -1 to +1 bar	Max 5 bar	25	520 018 25
Vacuum/Pressure Sensor PICO, -1 to +10 bar	Max 16 bar	25	520 018 26
Pressure Sensor PICO, 0 to +10 bar	Max 16 bar	25	520 018 12

Designation	OUT 1		OUT 2	
	Breakpoint Factory setting	Hysteresis Factory setting	Breakpoint Factory setting	Hysteresis Factory setting
PICO, -1 to 0 bar	46% vacuum/-0,46 bar	7 % vacuum/-0,07 bar	79% vacuum/-0,79 bar	7 % vacuum/-0,07 bar
PICO, -1 to +1 bar	47% vacuum/-0,47 bar	7 % vacuum/-0,07 bar	0.47 bar	0.07 bar
PICO, -1 to +10 bar	47% vacuum/-0,47 bar	7 % vacuum/-0,07 bar	4.7 bar	0.7 bar
PICO, 0 to +10 bar	4,6 bar	0,7 bar	7.9 bar	0.7 bar

Accessories

3 m cable fitted with a 4-pin M8 connector on one end and bare wire on the other end.



PICO with M12 connector on request



The PICO series is also available with a 4-pin M12 connector.

Designation	Weight	Order no.
Connection cable 3 m	90	590 001 04

Operating Instructions

<http://www.avac.se/pdf/i-PICO.pdf>

