

Vacuum/Pressure Sensors MICRO

- Open collector PNP
- Easy access adjustment screw
- Miniature Design
- Metal M5 connection
- LED indicator
- Robust design in IP40
- Rotatable housing 360 °
- With 3 m cable or 120 mm cable and M8-connecto

The miniature design and the low weight make MICRO suitable for e.g. grippers in robot applications. The switching point is adjustable.

Available in pressure ranges between -1 bar to +1 bar. See next page.

Technical Data

Electrical Characteristics

Operating voltage, U_b	9 to 30 VDC, polarity protected
Current consumption	20 mA without load
Output	1 x PNP, NO
Max load	100 mA (overload protected)
Output voltage PNP	approx. $U_b - 1,5 V$
Hysteresis	0,05 bar (5 % vacuum)
Accuracy	$\pm 3\%$ FS (0 to +50 °C)
EMC	According to EU-directive 2004/108/EG*

Mechanical specifications

Material Housing	ABS/PC plastic
Size of body	approx 23 x 10 x 30 mm (H x B x L)
Fluid connection	M5 externally, nickel plated brass
Protection class.	IP40
Electrical connection	3 m cable or 120 mm cable with 3-pin M8, nickel plated brass

Environment

Operating temp.	-10 to 60 °C
Chock	1000 m/s ² , XYZ each 3 times
Vibration	10 to 55 Hz, 1,5 mm, XYZ, 2 hours
Humidity	10 to 90% RH

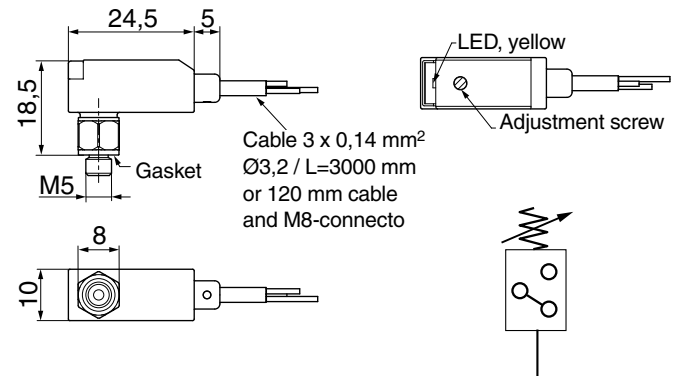
Indication

LED yellow signal at active output

Media

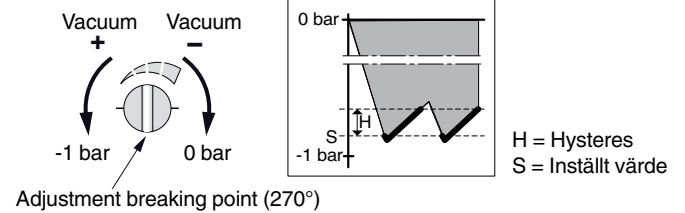
Filtered, dried lubricated or non lubricated compressed air neutral gases

* shielded cable recommended

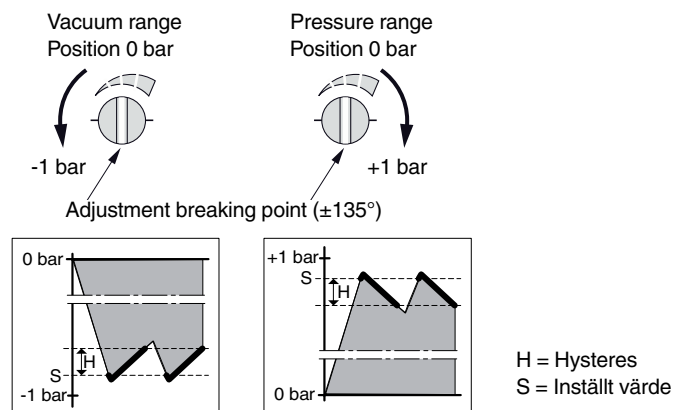


3D CAD FILES (STEP)
 Log in and download via:
<http://avac.se/index.php/en/login-4>

Vacuum sensor



Vacuum/pressure sensor



Vacuum/Pressure Sensors MICRO, PNP with 3 m cable



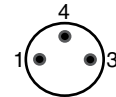
Function	Cable Colour
Feed Voltage, Ub +	Brown
0 V	Blue
OUT1	Black

Designation	Breakpoint factory setting	Overpressure safe (Intermittent)	Weight g	Order no.
Vacuum Sensor MICRO, PNP, -1 to 0 bar	65% vacuum/ - 0,65 bar	Max 3 bar	38	520 018 05
Vacuum/Pressure Sensor MICRO, PNP, -1 to +1 bar	no factory setting	Max 3 bar	38	520 018 06

Vacuum/Pressure Sensors MICRO, PNP with 120 mm cable and M8 connector



Pin	Function	Cable Colour
1	Ub+	Brown
3	0 V (GND)	Blue
4	OUT	Black



Designation	Breakpoint factory setting	Overpressure safe (Intermittent)	Weight g	Order no.
Vacuum Sensor MICRO, PNP, -1 to 0 bar	65% vacuum/ - 0,65 bar	Max 3 bar	20	520 018 15
Vacuum/Pressure Sensor MICRO, PNP, -1 to +1 bar	no factory setting	Max 3 bar	20	520 018 16

Type NPN

Pressure ranges on request: -1 to 0 bar
-1 to +1 bar

Male threaded adaptor

Used to connect Vacuum/Pressure Sensor MICRO to all ejectors with G1/8 thread of connection port.



Designation	External thread	Internal thread	Weight g	Order no.
Male threaded adaptor	G1/8	M5	8	241 118 05

Operating Instructions

<http://www.avac.se/pdf/I-MICRO.pdf>

