MP SENSOR

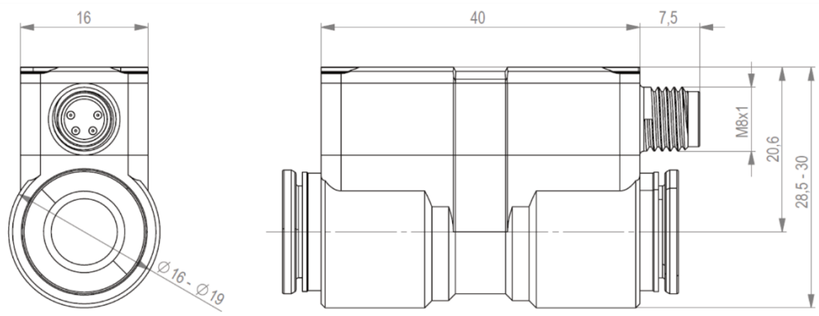
Product category	Type	Version
ELECTRONIC PRESSURE & VACUUM SWITCH	**INLINE**	STANDARD

DATA SHEET | *ENGLISH*



IO-Link CE UKCA cULus LISTED E511277

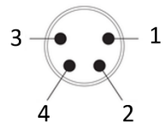
DIMENSION DRAWING



ELECTRICAL CONNECTION

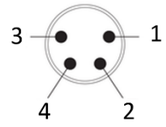
Version 1xPNP with Poti

Pin	Assignment
1	Ub+
3	0 V
4	Out 1
2	



Version 2xPNP with IO-Link

Pin	Assignment
1	Ub+
3	0 V
4	Out 1 / IO-Link
2	Out 2



General data

Display	LED green: Operating display LED yellow: Switching points OUT 1 / 2
Setting options	1xPNP: Switching point via potentiometer 2xPNP: Different parameters via IO-Link, e.g.: Switching points; NO/NC; Hysteresis / Window mode; Switching delay
Operating medium	Filtered, dry or oiled air and non-corrosive gases
Protection class	IP40 / IP68
MTTF (40°C)	713 Years

Ordering information

1 - 08 - XX X1 – 0 XX X 00

Process connection

Push-in Ø4mm	14
Push-in Ø6mm	07
Push-in Ø8mm	15
Push-in Ø10mm	16

Protection class

IP40	5
IP68	8

Output

1x PNP / NO	11
1x PNP / NC	12
2x PNP with IO-Link	33

Pressure range (bar)

-1…0	1
-1…1	2
-1…10	3
0…10	4
0…12	5
-1…3	6
0…0,25	8

Mechanical data

Material housing	Plastic PBT/PC
Process connection	Push-in 4/6/8/10 mm
Mounting position	Any
Weight	approx. 20 g (4/6mm) approx. 30 g (8/10mm)

Electrical data

Electrical connection	M8x1 4-pole
Operating voltage	9…30 VDC
Current consumption	< 25 mA
Short-circuit / reverse polarity protection	yes / yes

Output (Version 1xPNP with potentiometer)

Output signal	1x PNP
Max. output current	max. 100 mA
Output voltage	approx. Ub -1.5 V
Output function	NO/NC (fixed setting)
Switching point	Adjustment potentiometer 5-100%
Switching hysteresis	approx. 5% FS
Repeatability	± 3% FS

Output (Version 2xPNP with IO-Link)

Output	2x PNP + IO-Link
Output voltage	approx. Ub -1.5 V
Max. output current	max. 200 mA per output
Output function	NO/NC (programmable)
Accuracy (23°C)	± 0.5% FS
max. temperature error	± 1.5% FS (-25°C…85°C)
Repeatability	± 0.2% FS
Long term drift	≤ 0.1% / a
IO-Link specification	Version 1.1
Transmission rate	COM 2 / 38,4 kBit/s

Pressure range

Measuring range							
(bar) .	0…0.25	-1…0	-1…1	-1…3	-1…10	0…10	0…12
(psi) .	0…3.26	-14.5…0	-14.5…14.5	-14.5…43.5	-14.5…145	0…145	0…174
max. overpressure*							
(bar) .	0.5	2		6	15		
(psi) .	7.25	29		87	217.6		

Operating conditions

Operating temperature	Operation: -25°…+85°C
UL approval	E511277
EMC / interference immunity	EN61000-6-2
EMC / interference emission	EN61000-6-4

*overpressure not continuously allowed

MP-Sensor GmbH · Albstraße 13 · 73765 Neuhausen · Phone +49 (0)7158 9878490 · info@mp-sensor.de · www.mp-sensor.com · Errors and omissions excepted