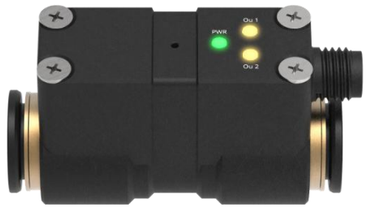
MP SENSOR

ELECTRONIC PRESSURE & VACUUM SWITCH *Product category*

INLINE *Type*

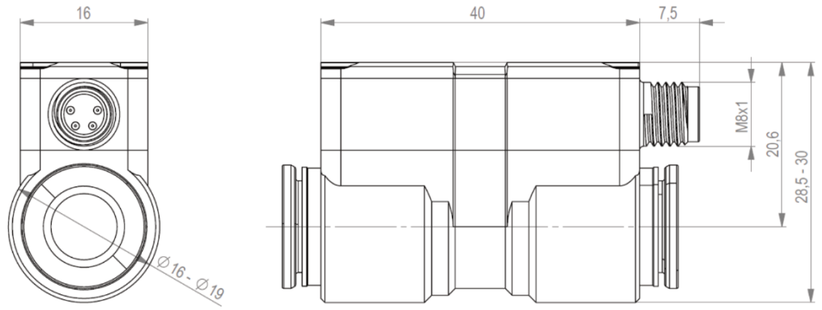
ATEX *Version*

DATA SHEET | *ENGLISH*



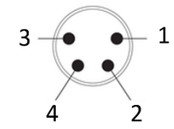
IO-Link UKCA CE cULus LISTED E511277

DIMENSION DRAWING



ELECTRICAL CONNECTION

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	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	IP68
MTTF (40°C)	716 Years

Ordering information

1 - 08 - XX X1 – 0 XX X 00

Process connection		*Pressure range (bar)*	
Push-in Ø4mm	14	-1…0	1
Push-in Ø6mm	07	-1…1	2
Push-in Ø8mm	15	-1…10	3
Push-in Ø10mm	16	0…10	4
		0…12	5
Protection class		-1…3	6
IP68+ATEX-Coating	1	0…0,25	8
Output			
2x PNP with IO-Link	33		

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

ATEX Conditions

The pressure sensors may only be connected to suitably approved intrinsically safe equipment that provides device protection according to “ic” (EPL Gc/Dc).

Maximum intrinsically safe voltage: U_i = 30 V

The specified maximum output current of 200 mA per channel must never be exceeded.

Output

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 (-10°C…60°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
ATEX approval	Ex ic IIC T4 Gc Ex icD IIC T4 Dc

*overpressure not continuously allowed

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