MP SENSOR

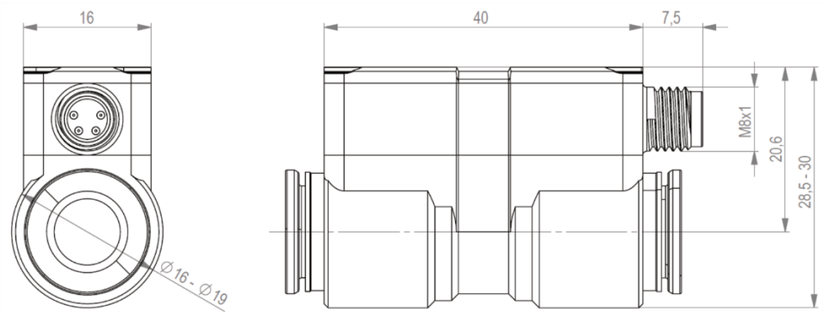
Product category	Type	Version
PRESSURE TRANSMITTER	INLINE ANALOG	ATEX

DATA SHEET | *ENGLISH*



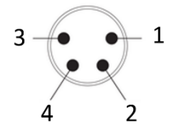
UK CA · Ex · CE · c UL us LISTED E511277

DIMENSION DRAWING



ELECTRICAL CONNECTION

Pin	Assignment
1	Ub+
3	0 V
4	OUT 1
2	NC



General data

Operating medium	Filtered, dry or oiled air and non-corrosive gases
Protection class	IP68
MTTF (40°C)	2,176 years (4-20mA) 2,528 years (0-10V / 1-10V/1-5V)

Ordering information

1 - 08 - XX X1 - XX 0 X 00

Process connection

hose connection Ø4mm	14
hose connection Ø6mm	07
hose connection Ø8mm	15
hose connection Ø10mm	16

Protection class

IP68+ATEX-Coating	1

Output signal

4…20 mA	07
0…10 V	09
1…10 V	10
1…5 V	11

Pressure range

bar	psi	
-1…0	-14.5...0	1
-1…1	-14.5…14.5	2
-1…10	-14.5…145	3
0…10	0…145	4
0…12	0…174	5
-1…3	-14.5...43.5	6
0…0.25	0…3.625	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; M12x1, 4-pole
Operating voltage	9…30 VDC (4…20 mA); 14…30 VDC (1…10 V; 0…10 V; 1…5V)
Short-circuit / reverse polarity protection	yes / yes
Output signal	4…20 mA; 1…10 V; 0…10 V; 1…5 V
Accuracy (23°C)	± 0.5% FS
max. temperature error	± 1.5% FS (-10°C…70°C)
Repeatability	± 0.2% FS
Long term drift	≤ 0.1% / a

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

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.

*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