MP SENSOR

Product category	Type	Version
PRESSURE TRANSMITTER	**F09-T-K**	STANDARD

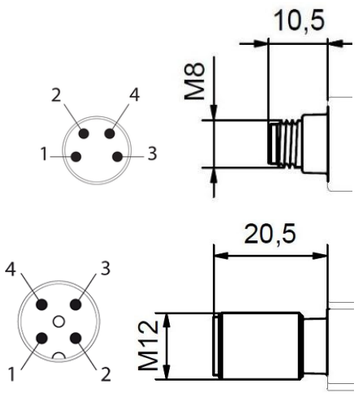
DATA SHEET | *ENGLISH*

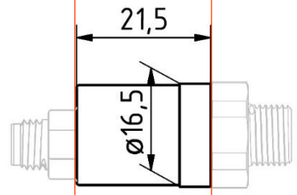


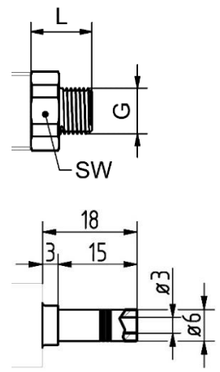
c UL US LISTED E511277 UK CA CE

ELECTRICAL CONNECTION | **BODY** | **PROCESS CONNECTION**

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







G	L	SW
G1/8“	13	16
NPT1/8“	13	16

Tube connection (6 mm)**

General data

Operating medium	Filtered, dry or oiled air and non-corrosive gases
Protection class	IP65
MTTF (40°C)	2.176 years (4-20mA) 2.528 years (0-10V / 1-10V/1-5V)

Ordering information

2 - 01 - XX XX - XX 0 X 00

Process connection

G1/8“ a	01
NPT1/8“ a	02
Tube connection 6 mm**	03

Electrical connection

M8 4-pole	01
M12 4-pole	02

Output signal

4…20 mA	01
1…10 V	02
0…10 V	03
1…5V	04

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…3.62	8

Mechanical data

Material housing	Plastic PC
Process connection	G1/8”; NPT1/8“; Tube connection 6 mm**
Material process connection	Brass nickel-plated
Mounting position	Any (port downwards when using oiled air)
Weight	18 g

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…5 V) (UL: class 2 source only)
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 (-25°C…85°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: 0°…+60°C)
UL approval	E511277

*overpressure not continuously allowed | **only for pressure ranges -1…0 and -1…1 bar (-14.5…0 and -14.5…14.5 psi)

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