SX MA

flush diaphragm pressure transmitter, intrinsecally safe ATEX version, accuracy 0,5 %

II 1 GD Ex ia IIC Ex ia IIIC
II 1/2 GD Ex ia IIC Ex ia IIIC

Certificato :
0425 ATEX 2635

8.XMA

Ignition protection Ex ia as per EN 60079-0, EN 60079-11, EN 60079-26, atmosphere type GD **:**
- category 1 (1), marking **II 1 GD Ex ia IIC Ex ia IIIC (cod. 1GD)**;
- category 1/2, marking **II 1/2 GD Ex ia IIC Ex ia IIIC (cod. 2GD)**.

Temperature classes (2)**,**
-T6 (T85°C)Ta ≤ 60 °C (cod. T6B);
-T5 (T100°C)Ta ≤ 80 °C (cod. T5B);
-T4 (T135°C)Ta ≤ 100 °C (cod. T4B).

Measuring ranges: 0...1/0...600 bar, relative.
Output signal: 4...20 mA **(cod. 1)**.
Non-linearity (BFSL): ≤ ± 0,25 % of the range, according to IEC 61298-2.
Non-repeatability: ≤ 0,15 % of the range, according to IEC 61298-2.
Accuracy: ≤ ± 0,5% of the range (3).
Long term drift: ≤ 0,2 % of span.
Zero and span adjustement: ± 10 % span typical.
Stocking temperature: -30...+85 °C.
Response time: <4 ms (measuring); <150 ms (switching on).
Emission and immunity: according to EN 61326,
(group 1 - class B; industrial applications).
Vibration resistance: 20g (10...2000 Hz, according to IEC 60068-2-6).
Shock resistance: 40g (6 ms, according to IEC 60068-2-27).
Sensor: ceramic in Al_2O_3.
Case: in AISI 316L, vented up to 16 bar.
Protection degree: IP 65 according to IEC 60529 (4).
Diaphragm and process connection: in AISI 316L.
Weight: 0,28 kg

(1) available with IP 68 metallic cable gland only;
(2) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature;
"Tp" & "Ta" ≥ -30 °C.
(3) max measuring error according to IEC 61298-2, including non-linearity and hysteresis (limit-point calibration and reference conditions according to IEC 61298-1); accuracy ≤ ± 0,75% of span for measuring ranges 0...1 bar and 0...600 bar.
(4) with properly assembled electric connection

Ranges bar, relative (1)	**Thermal drift** % span / °C (3)	**Overpressure** bar, relative
0...1 (2)	0,08	2,5
0...1,6/0...2,5 (2)	0,06	5
0...4 (2)	0,04	10
0...6 (2)	0,03	20
0...10	0,03	20
0...16	0,02	40
0...25/0...40	0,02	100
0...60/0...100	0,02	200
0...160/0...250	0,02	500
0...400	0,02	600
0...600	0,02	800

(1) Other unit of measurement and intermediate ranges are available, as requested by customer.
(2) Ranges available with G 3/4 A connection only.
(3) Thermal drift on connection G 3/4 A.

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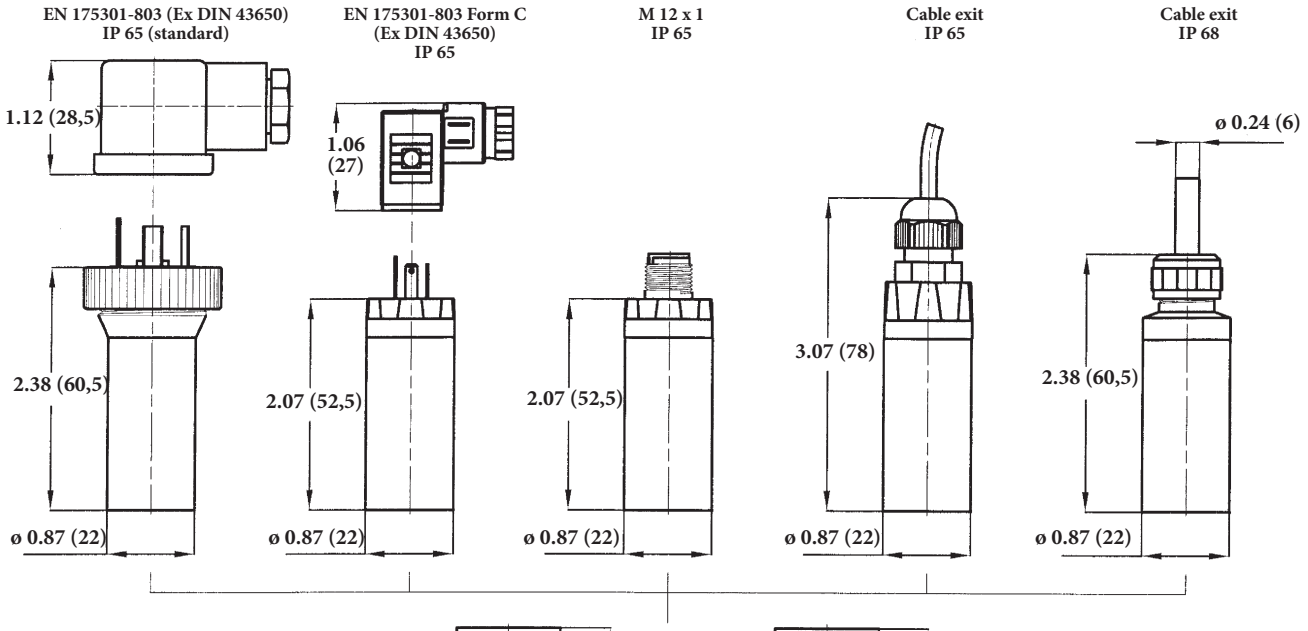
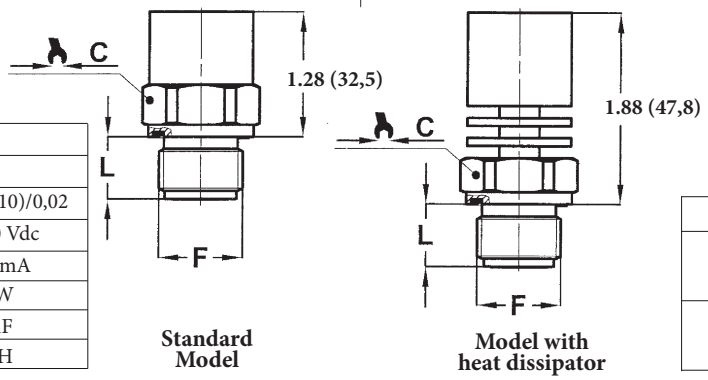
RG4 - 10/75

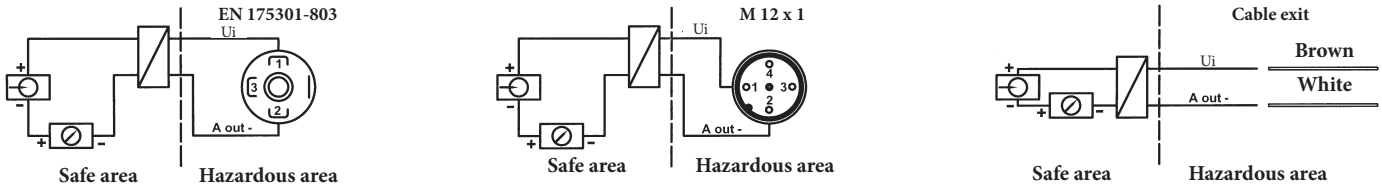




Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (Ui-10)/0,02$
Supply (Ui)	10…30 Vdc
Max current (Ii)	≤ 100 mA
Max power (Pi)	1,0 W
Capacitance (Ci)	19 nF
Inductivity (Li)	0 mH

F	L	C
41M G 1/2 B	*0.62* (16)	*1.06* (27)
51M G 3/4 B	*0.64* (16,5)	*1.25* (32)

dimensions : inches (mm)

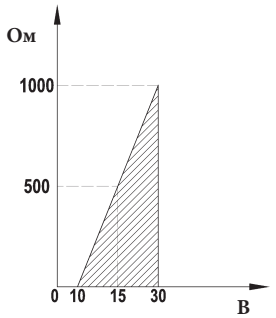


OPTIONS

Classification		II 1GD	II 1/2GD
--- -	Junction box IP 65, as per EN 175301-803 Form A		T6...T4 (2)
SCC -	Junction box IP 65, as per EN 175301-803 Form C (1)		T6...T4 (2)
M12 -	Junction box IP 65, M12 x 1 (1)		T6...T5
PVC -	Cable exit IP 65, with PVC cable (1)		T6...T5
U68 -	Cable exit IP 68, with vented polyurethane cable (1)	T6	T6

(1) Zero calibration not available
(2) silicon gasket when T4 temp. class is choose

LOAD RESISTANCE



"HOW TO ORDER" SEQUENCE

Section / Model / Range / Process connection / Output signal / Classification / Temperature / Gasket / Options

8	XMA	41M 51M	1	1GD 2GD	T6B T5B T4B	FPM	- - - ... U68

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