

intrinsically safe pressure transmitter, for food industry and sanitary applications, ATEX version

SX SA



74-03
Authorization NO. 597

- ✓ - Zones : 0, 1, 2, 20, 21, 22
- ✓ - Threaded and clamp connection as per:
DIN 11581, SMS, and ISO 2852.
- ✓ - Wetted parts: AISI 316L st.st.
- ✓ - EMC emission and immunity: as per EN 61326.
- ✓ - Calibration: adjustable.



II 1 GD Ex ia IIC Ex iaD 20
II 1/2 GD Ex ia IIC Ex iaD 20

Certificate :
CESI 06 ATEX 003 X

8.XSA - Standard Model

Instrument classification:

- category 1 (1), atmosphere type GD, ignition protection Ex ia IIC as per EN 60079-0, EN 60079-11, EN 60079-26 and Ex ia D 20 as per EN 61241-0, EN 61241-11: II 1 GD Ex ia IIC Ex iaD 20 (cod. 1GD);

- category 1/2, atmosphere type GD, ignition protection Ex ia IIC as per EN 60079-0, EN 60079-11, EN 60079-26 and Ex ia D 20 as per EN 61241-0, EN 61241-11: II 1/2 GD Ex ia IIC Ex iaD 20 (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).

Ranges: 0...10/0...600 psi, relative (0...0,6/0...40 bar, relative);
-30"...0/-30"...350 psi, relative (-1...0/-1...+24 bar, relative).

Accuracy (% span): ≤ 0,25 typical; ≤ 0,5 max.

Calibration: limit-point as per DIN 16086.

Repeatability: ≤ 0,15 % of span.

Thermal drift: ≤ 0,011 % span / °F (≤ 0,02 % span / °C).

Storage temperature: +14...+212 °F (-10...+100 °C)

Output signal: 4...20 mA.

Zero and span calibration: ± 10 % span typical.

Compensated temperature range: +32...+176 °F (0...+80 °C).

Filling liquid: silicon oil.

Sensor: ceramic or piezoresistive.

Case: stainless steel, vented for pressure ranges ≤ 230 psi (≤ 16 bar).

Electric connections: junction boxes and cable exit are available, see option table below.

Protection: IP 65 and IP 68 (1) as per EN 60529 (relative to electrical connection type).

(1) available with IP 68 metallic cable gland only;

(2) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature;
"Tp" & "Ta" ≥ -10 °C.

Ranges psi, relative (1)	Overpressure psi, relative	Thermal drift % span / °F (2)
0...10	36	0.03
0...15	45	0.03
0...25	72	0.02
0...30	72	0.02
0...60	145	0.01
0...100/0...160	290	0.01
0...200	580	0.01
0...300	580	0.01
0...600	1450	0.01

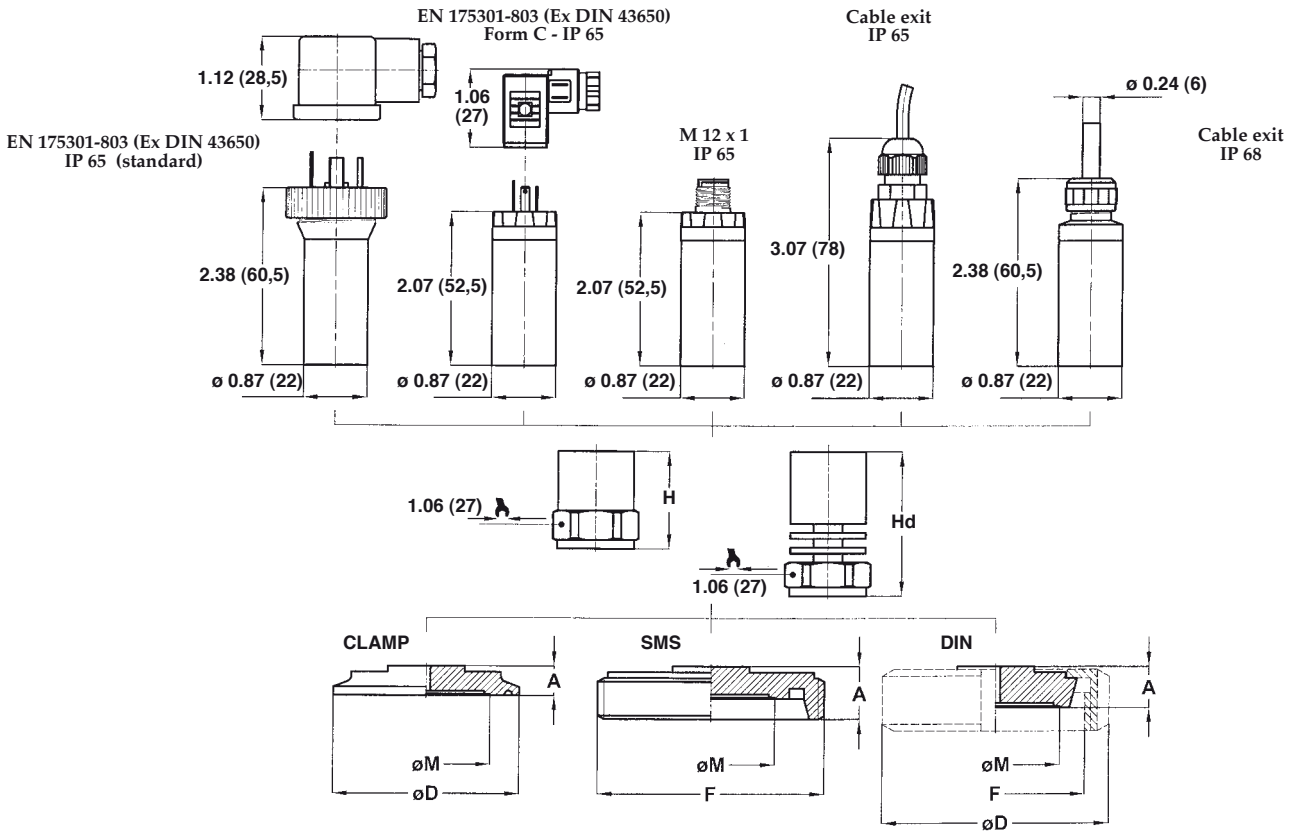
(1) Other unit of measurement, intermediate ranges, vacuum and compound ranges are available, as requested by customer.

(2) Thermal drift on connection DIN 11851 DN40F.

Ranges bar, relative (1)	Overpressure bar, relative	Thermal drift % span / °C (2)
0...0,6	2,5	0,05
0...1	3	0,05
0...1,6	5	0,04
0...2,5	5	0,04
0...4	10	0,02
0...6/0...10	20	0,02
0...16	40	0,02
0...25/0...40	100	0,02

(1) Other unit of measurement, intermediate ranges, vacuum and compound ranges are available, as requested by customer.

(2) Thermal drift on connection DIN 11851 DN40F.



Pn (bar)	H	Hd
≤ 1,6	1.42" (36,2)	2.05" (52,2)
> 1,6	1.23" (31,2)	1.86" (47,2)

Standards	DN	A	øD	øM	F
BIM SMS M	2"	0.74 (19)		1.73 (44)	Rd 70 x 1/6
AT0 ISO 2852 (clamp) (2)	1" 1/2	0.39 (10)	1.98 (50,5)	1.33 (34)	
BT0 ISO 2852 (clamp) (2)	2"	0.39 (10)	2.51 (64)	1.73 (44)	
DT0 ISO 2852 (clamp) (2)	2" 1/2	0.39 (10)	3.05 (77,5)	2.24 (57)	

Standards	DN	A	øD	øM	F
QHF DIN 11851 F (1)	25	0.62 (16)	2.48 (63)	0.95 (23,5)	Rd 52 x 1/6
SHF DIN 11851 F (1)	40	0.62 (16)	3.07 (78)	1.73 (44)	Rd 65 x 1/6
THF DIN 11851 F (1)	50	0.66 (17)	3.62 (92)	2.24 (57)	Rd 78 x 1/6

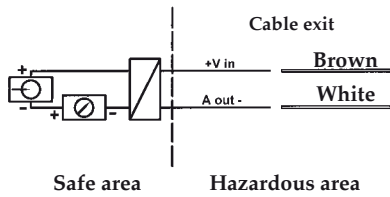
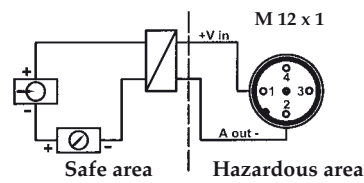
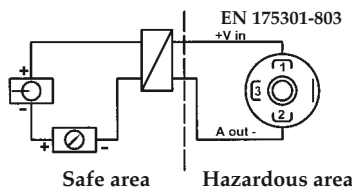
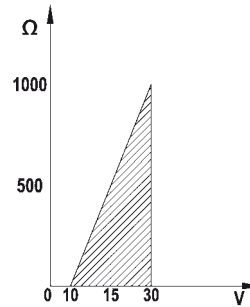
dimensions : inches (mm)

(1) Execution without roller available on request: pls. contact our Technical Department.

(2) Execution with clamp, gasket and connection to be welded available on request: pls. contact our Technical Department.

Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (V_{in}-10)/0,02$
Supply: +V _{in}	10...30
Max current (I _i)	≤ 100 mA
Max power (P _i)	1,0 W
Capacitance (C _i)	19 nF
Inductivity (L _i)	0 mH

LOAD RESISTANCE



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

“HOW TO ORDER” SEQUENCE

Section / Model / Range / Process connection / Output signal / Classification / Temperature / Options
 8 XSA BIM...DT0 1 1GD T6B --- ... U68
 QHE...THF 2GD T5B
 T4B

