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

SX SA

- ✔ - ***Construction and finishing:*** *as per 74-05 SSI*
- ✔ - ***Zones :*** *0, 1, 2, 20, 21, 22*
- ✔ - ***Wetted parts:*** *AISI 316L st.st.*
- ✔ - ***EMC emission and immunity:*** *as per EN 61326*
- ✔ - ***Calibration:*** *adjustable*
- ✔ - ***Full traceability***

74-05
Authorization NO. 1599

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).

Seal fill: oil for food service (FDA).

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).

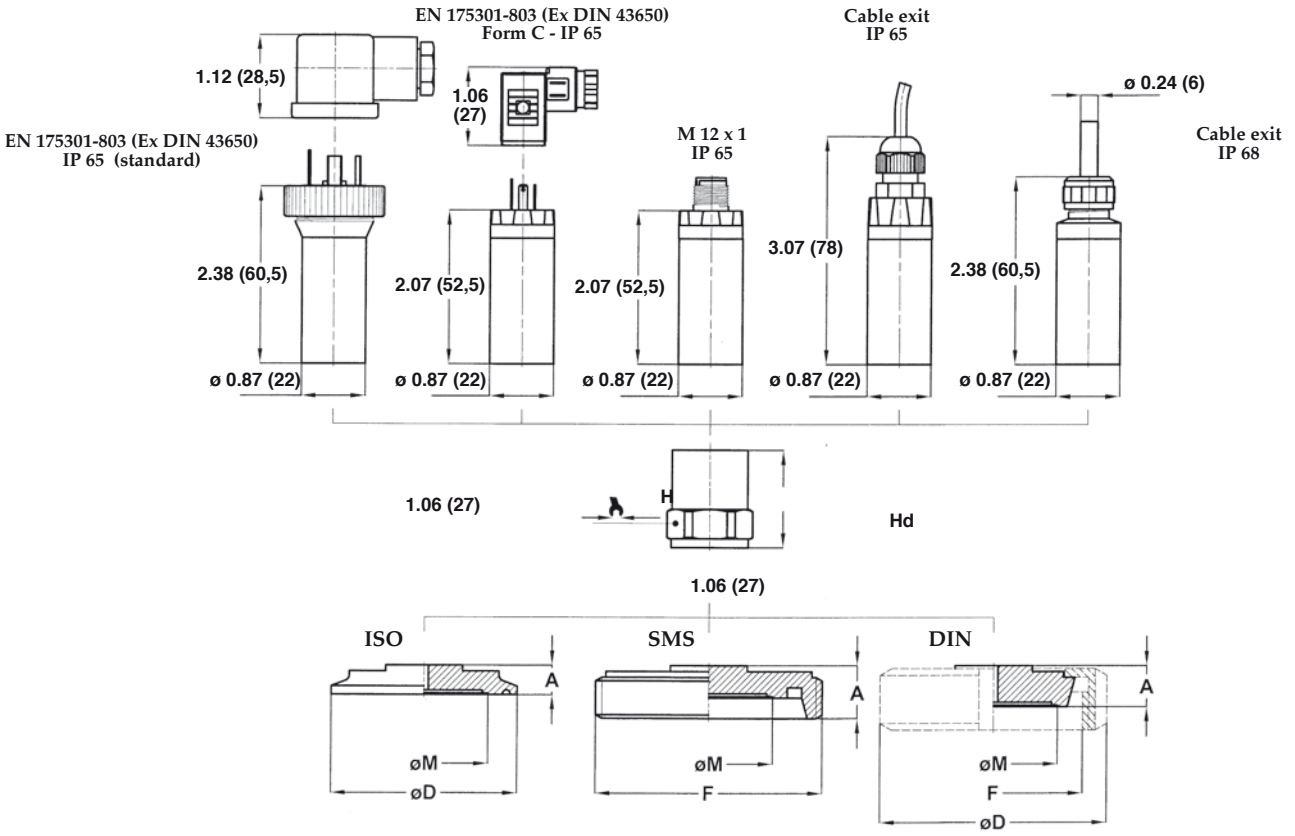
(1) available with IP 68 metallic cable gland only;
(2) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature;
"Tp" & "Ta" ≥ -10 °C.

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 (4)	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) (3)	25	*0.62* (16)	*2.48* (63)	*0.95* (23,5)	Rd 52 x 1/6
SHF DIN 11851 F (1) (3)	40	*0.62* (16)	*3.07* (78)	*1.73* (44)	Rd 65 x 1/6
THF DIN 11851 F (1) (3)	50	*0.66* (17)	*3.62* (92)	*2.24* (57)	Rd 78 x 1/6

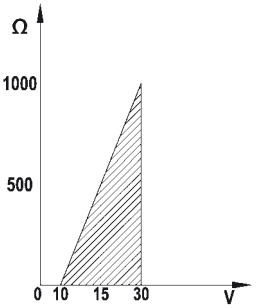
dimensions : *inches* (mm)

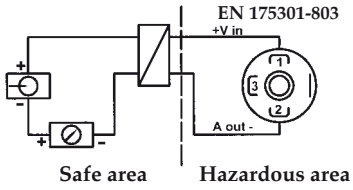
(1) Execution without roller available on request: pls. contact our Technical Department.
(2) Execution with clamp, gasket and connection to be welded available on request: pls. contact our Technical Department.
(3) To be installed with special adapter SKS
(4) Not available with 3A marking

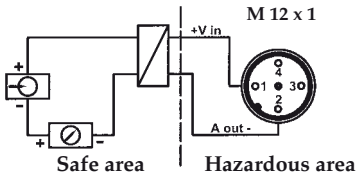
RB6 - 04/13

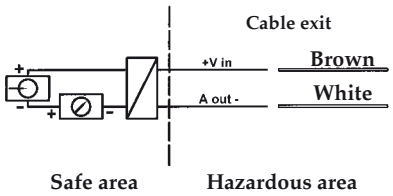
Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (Vin-10)/0,02$
Supply: +Vin	10…30
Max current (Ii)	≤ 100 mA
Max power (Pi)	1,0 W
Capacitance (Ci)	19 nF
Inductivity (Li)	0 mH

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 QHF...THF	1	1GD 2GD	T6B T5B T4B	- - - ... U68

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