SX SA

intrinsically safe pressure transmitter, for food industry and sanitary applications, ATEX version, accuracy 0,5 %

74-06
Authorization NO. 1599

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

Certificate :
CESI 06 ATEX 003 X

Compliance to requirements of directives: ATEX 2014/34/EU- EMC 2014/30/EU - PED 2014/68/EU - RoHS 2011/65/CE

8.XSA

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...0,6/0...40 bar, relative; -1...0/-1...+24 bar, relative; 0...0,6/0…16 bar, absolute.

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: -10...+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 or piezoresistive.

Seal fill: oil for food service (FDA).

Case: in AISI 316L, vented up to 16 bar.

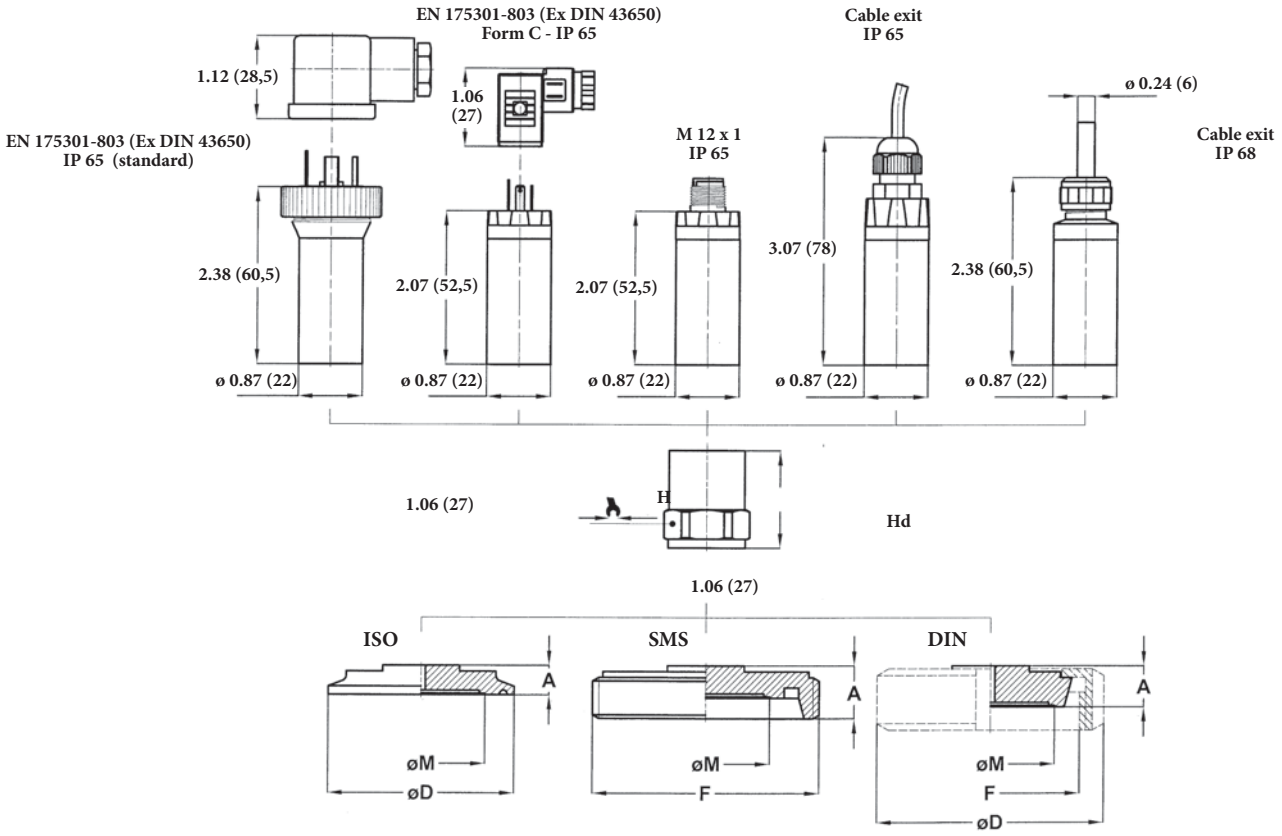
Protection degree: IP 65 according to IEC 60529 (4).

Diaphragm and process connection: in AISI 316L.

(1) available with IP 68 metallic cable gland only;
(2) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature; "Tp" & "Ta" ≥ -20 °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 range 0...1 bar
(4) with properly assembled electric connection

Ranges bar, relative (1)	**Overpressure** bar, relative	**Thermal drift % span / °C** (2)
0...≥ 0,6/0...< 1	2,5	0,05/0,04
0...1/0...2,5	5	0,04/0,03
0...4	10	0,02
0...6/0...10	20	0,02
0...16	40	0,02
0...25/0...40	60	0,02

(1) Other units of measure intermediate ranges, vacuum and compound ranges available upon request.
(2) Thermal drift on connection DIN 11851 DN40F.



Pn (бар)	**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

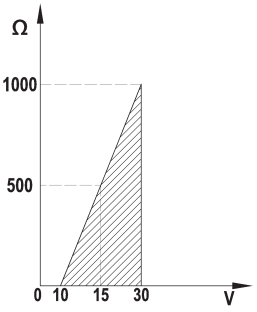
dimensions : *inches* (mm)

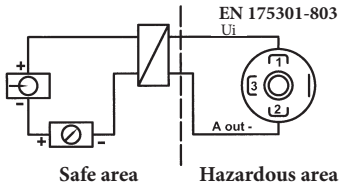
(1) Execution without roller available upon request: please contact our Technical Department.
(2) Execution with clamp, gasket and connection to be welded available on request: please contact our Technical Department.
(3) Gasket System from Siersema Komponenten System (S.K.S.) B.V. or Kieslemann ASEPTO-STAR k-flex gasket.
(4) Not available with 3A marking

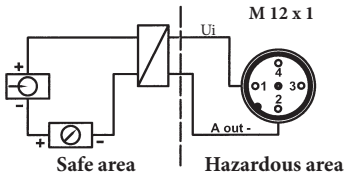
RK7 - 11/14

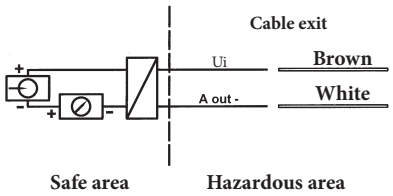
Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (Ui-10)/0,02$
Supply (Ui)	10…30
Max current (Ii)	≤ 100 mA
Max power (Pi)	1,0 W
Capacitance (Ci)	19 nF
Inductivity (Li)	0 mH

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 upon request

"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	SCC... U68

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