

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



**74-06**  
**Authorization NO. 1599**

**Certificate :**  
**CESI 06 ATEX 003 X**



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

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 <sup>(1)</sup>, 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** <sup>(2)</sup>,

- 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 <sup>(3)</sup>.

**Long term drift:** ≤ 0,2 % of span.

**Zero and span adjustment:** ± 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<sub>2</sub>O<sub>3</sub> 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 <sup>(4)</sup>.

**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.

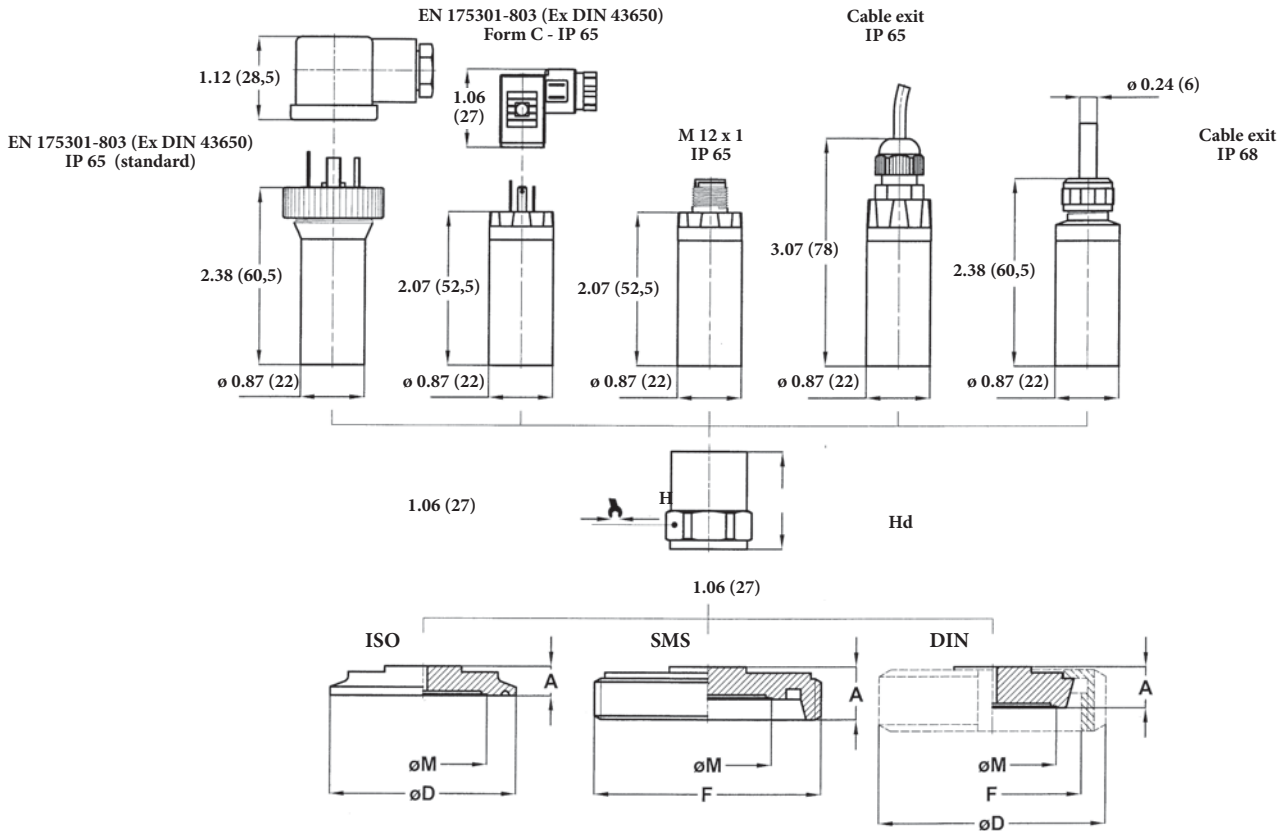
(3) max measuring error according to IEC 61298-2, including non-linearity and hysteresis (limit-point calibration and reference conditions according to IEC 61298-1); accuracy ≤ ± 0,75% of span for measuring range 0...1 bar

(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 unit of measurement, intermediate ranges, vacuum and compound ranges available upon request.

(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
<b>BIM</b> SMS M (4)	2"	0.74 (19)		1.73 (44)	Rd 70 x 1/6
<b>ATO</b> ISO 2852 (clamp) (2)	1" 1/2	0.39 (10)	1.98 (50,5)	1.33 (34)	
<b>BT0</b> ISO 2852 (clamp) (2)	2"	0.39 (10)	2.51 (64)	1.73 (44)	
<b>DT0</b> ISO 2852 (clamp) (2)	2" 1/2	0.39 (10)	3.05 (77,5)	2.24 (57)	

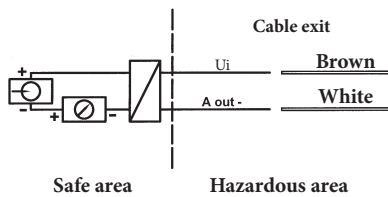
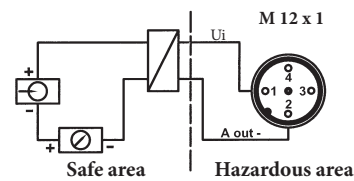
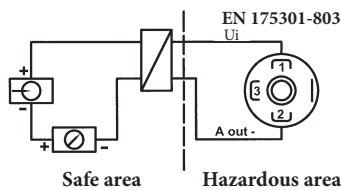
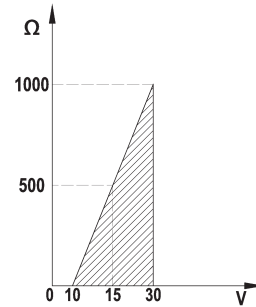
Standards	DN	A	øD	øM	F
<b>QHF</b> DIN 11851 F (1) (3)	25	0.62 (16)	2.48 (63)	0.95 (23,5)	Rd 52 x 1/6
<b>SHF</b> DIN 11851 F (1) (3)	40	0.62 (16)	3.07 (78)	1.73 (44)	Rd 65 x 1/6
<b>THF</b> DIN 11851 F (1) (3)	50	0.66 (17)	3.62 (92)	2.24 (57)	Rd 78 x 1/6

dimensions : inches (mm)

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

Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (U_i - 10) / 0,02$
Supply (U <sub>i</sub> )	10...30
Max current (I <sub>i</sub> )	≤ 100 mA
Max power (P <sub>i</sub> )	1,0 W
Capacitance (C <sub>i</sub> )	19 nF
Inductivity (L <sub>i</sub> )	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)
<b>SCC</b> - Junction box IP 65, as per EN 175301-803 Form C (1)		T6...T4 (2)
<b>M12</b> - Junction box IP 65, M12 x 1 (1)		T6...T5
<b>PVC</b> - Cable exit IP 65, with PVC cable (1)		T6...T5
<b>U68</b> - 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 1 1GD T6B SCC... U68**  
**QHF...THF 2GD T5B**  
**T4B**

