

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



II 1G Ex ia IIC T6...T4 Ga
II 1D Ex ia IIIC T₂₀₀85°C...T₂₀₀135°C Da
II 1/2G Ex ia IIC T6...T4 Ga/Gb
II 1/2D Ex ia IIIC T₂₀₀85°C...T₂₀₀135°C Da/Db

A[®]
74-07
Authorization NO. 1599

Certificate :
0425 ATEX 2635-01

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

8.XSA

Protection type: intrinsic safety "ia" as per EN 60079-0, EN 60079-11.

Marking:

- II 1 G Ex ia IIC T6...T4 Ga

II 1 D Ex ia IIIC T₂₀₀85°C...T₂₀₀135°C Da (Cod. **G1D**) ⁽¹⁾;

- II 1/2 G Ex ia IIC T6...T4 Ga/Gb

II 1/2 D Ex ia IIIC T₂₀₀85°C...T₂₀₀135°C Da/Db (Cod. **G2D**).

Measuring ranges: 0...0,6/0...40 bar, relative; -1...0/-1...+24 bar, relative.

Output signal: 4...20 mA.

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 ⁽²⁾.

Long term drift: ≤ 0,2 % of span.

Zero and span adjustment: ± 10 % span typical.

Stocking temperature: -10...+80 °C.

Response time: <4 ms (measuring); <150 ms (switching on).

Emission and immunity: according to EN 61326-1,
(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 Al₂O₃ or piezoresistive.

Seal fill: oil for food service (FDA).

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

Protection degree: IP 65/68 according to IEC 60529 ⁽³⁾.

Diaphragm and process connection: in AISI 316L.

Ranges bar, relative ⁽¹⁾	Overpressure bar, relative	Thermal drift % span / °C ⁽²⁾
0...0,6	1,8	0,05
0...1	2	0,04
0...1,6	3,2	0,03
0...2,5	5	0,02
0...4	5	0,02
0...6	12	0,02
0...10	20	0,02
0...16	32	0,02
0...25	50	0,02
0...40	60	0,02

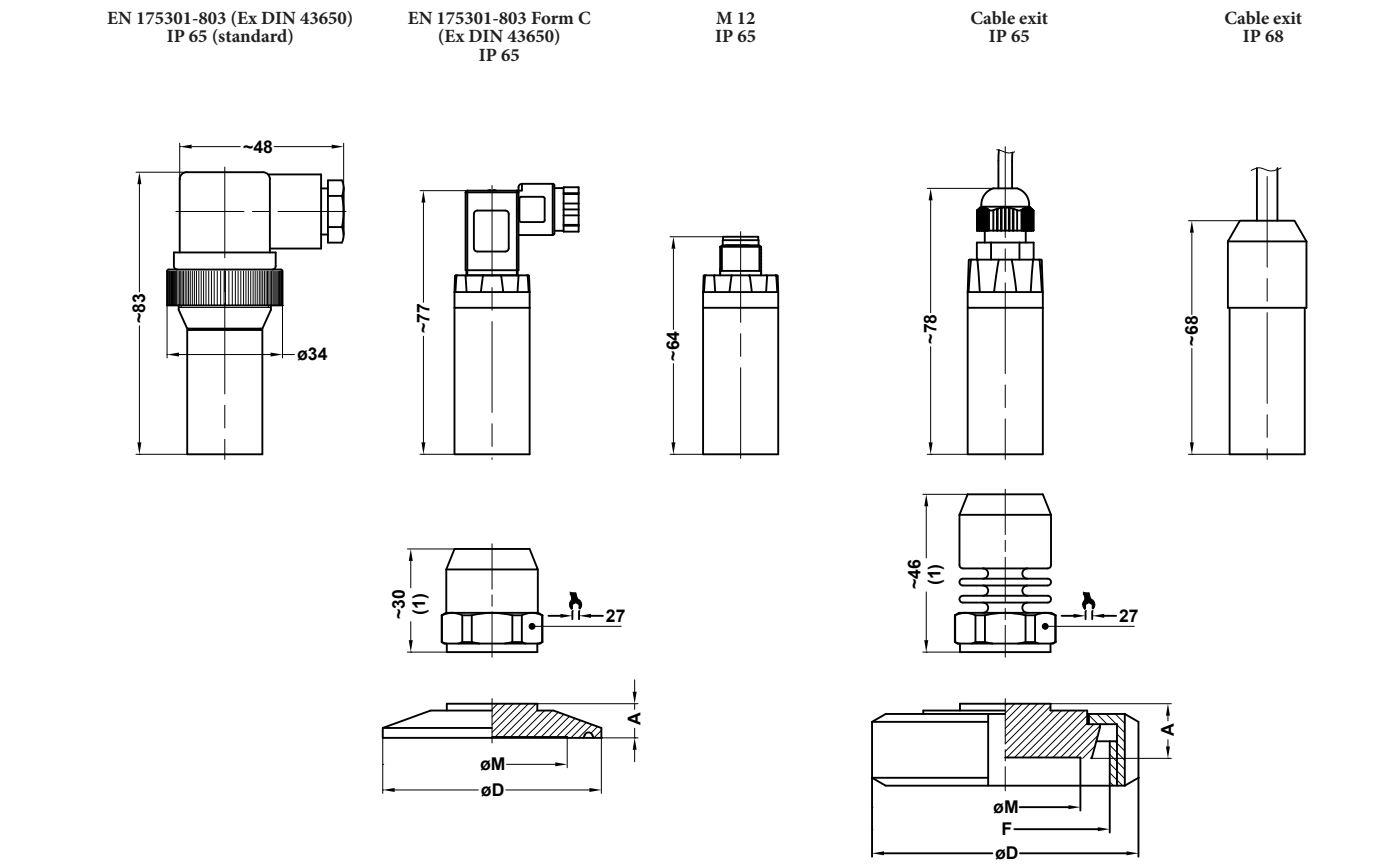
(1) Different units of measurement, intermediate ranges, vacuum and compound ranges available upon request.

(2) Thermal drift on connection DIN 11851 DN40F.

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

(2) 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

(3) depending on the electrical connection type



Standards	DN	A	øD	øM
AT0 ISO 2852 (clamp) (2)	1" 1/2	0.39 (10)	1.98 (50,5)	1.18 (30)
BT0 ISO 2852 (clamp) (2)	2"	0.39 (10)	2.51 (64)	1.57 (40)
DT0 ISO 2852 (clamp) (2)	2" 1/2	0.4 (12)	3.05 (77,5)	1.96 (50)

Standards	DN	A	øD	øM	F
QHF DIN 11851 F (1) (3)	25	0.62 (16)	2.48 (63)	1.18 (30)	Rd 52 x 1/6
SHF DIN 11851 F (1) (3)	40	0.62 (16)	3.07 (78)	1.57 (40)	Rd 65 x 1/6
THF DIN 11851 F (1) (3)	50	0.62 (16)	3.62 (92)	1.96 (50)	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) to be installed with gasket from Siersema Componenten System (S.K.S.) B.V.

Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (U_i - 10)/0,02$
Supply (U_i)	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

WIRING

	DIN 175301-803 A	M12	Cable exit
Supply connection: U+	1	1	brown
Negative connection: U-	2	3	white
Output signal: S+	-	-	-
Ground	GND	2	grey

OPTIONS

Classification	
---	Junction box IP 65, as per EN 175301-803 Form A
SCC	Junction box IP 65, as per EN 175301-803 Form C (1)
M12	Junction box IP 65, M12 x 1 (1)
PVC	Cable exit IP 65, with PVC cable (1)
U68	Cable exit IP 68, with vented polyurethane cable (1)

(1) Zero calibration not available

“HOW TO ORDER” SEQUENCE

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

8 XSA BIM...DT0 1 G1D --- SCC... U68
QHF...THF G2D