

intrinsically safe pressure transmitter, ATEX version, accuracy 0,35 %



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

Certificate :
0425 ATEX 2635-01

8.X09

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...1/0...1000 bar, relative; -1...0/-1...+24 bar, relative;
0...1/0...25 bar, absolute.

Output signal: 4...20 mA.

Non-linearity (BFSL): ≤ ± 0,175 % of the range, according to IEC 61298-2.

Non-repeatability: ≤ 0,1 % of the range, according to IEC 61298-2.

Accuracy: ≤ ± 0,35% of the range ⁽²⁾.

Zero and span adjustment: ± 10 % span typical.

Thermal drift: between 0 and 80°C, 1% of span; 2,5% of span, max ⁽³⁾.

Long term drift: ≤ 0,2 % of span.

Stocking temperature: -20...+85 °C.

Response time: <3 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: piezoresistive, with silicon oil.

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

Protection degree: IP 65/68 according to IEC 60529 ⁽⁴⁾.

Process connection: in AISI 316L, hole ø 2,5 mm (with restrictor ø 0,7 mm for measuring ranges ≥ 60 bar).

Weight: 0,25 kg

(1) available with 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).

(3) + 0,5% of span for measuring range ≤ 0,6 bar

(4) depending on the electrical connection

Ranges bar, relative	Overpressure bar, relative
0...0,1	0,3
0...0,16	0,5
0...0,25	0,8
0...0,4	1,2
0...0,6	1,8
0...1	2
0...1,6	3,2
0...2,5	5
0...4	8
0...6	12
0...10	20
0...16	32
0...25	50
0...40	80
0...60	120
0...100	200
0...160	320
0...250	380
0...400	600
0...600	900
0...1000	1500

Other ranges available on demand. Units of measurement available in psi, MPa, kPa too.

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

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SX 09

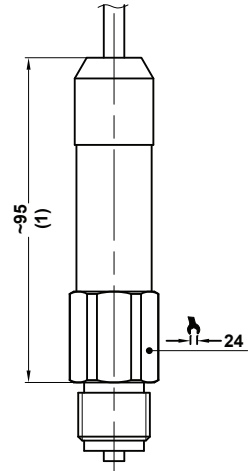
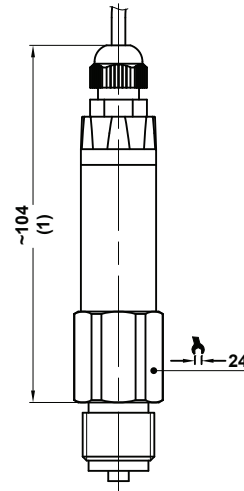
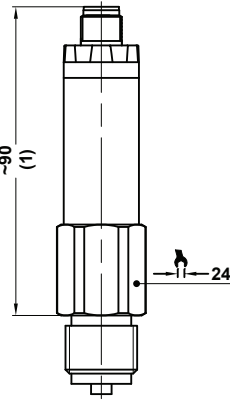
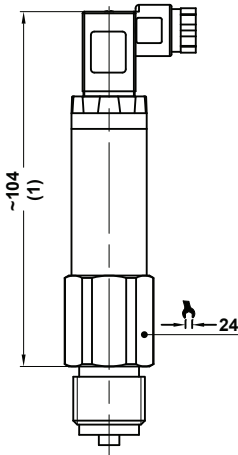
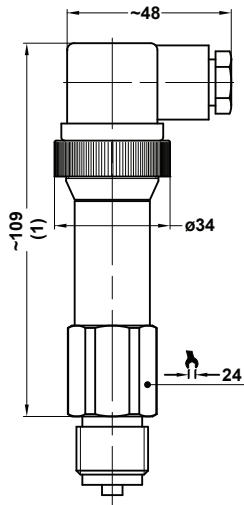
EN 175301-803 (Ex DIN 43650)
IP 65 (standard)

EN 175301-803 Form C
(Ex DIN 43650)
IP 65

M 12 x 1
IP 65

Cable exit
IP 65

Cable exit
IP 68



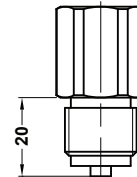
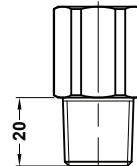
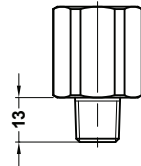
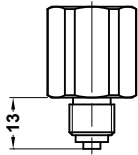
Dimensions: mm; (1) for pressures ≥ 160 bar add 5 mm

21M - G 1/4 A

23M - 1/4-18 NPT

43M - 1/2-18 NPT

41M - G 1/2 A



WIRING

	DIN 175301-803 A	M12 x 1	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)
CRP - CR gasket
EPD - EPDM gasket
NBR - NBR gasket
FPM - VITON gasket

(1) Zero calibration not available

Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (U_i - 10) / 0,02$
Supply (U _i)	10...30 Vdc
Max current (I _i)	≤ 100 mA
Max power (P _i)	1,0 W
Capacitance (C _i)	19 nF
Inductivity (L _i)	0 mH

“HOW TO ORDER” SEQUENCE

Section / Model / Range / Process connection / Output signal / Classification / Temperature / Gasket / Options
8 X09 41M 1 G1D --- CRP --- ... U68
43M G2D EPD
NBR
FPM

