

## intrinsically safe level transmitter, ATEX version, accuracy 0,5 %



**Certificate :  
0425 ATEX 2635**

### 8.XLV

**Ignition protection** Ex ia as per EN 60079-0, EN 60079-11, EN 60079-26, atmosphere type G :

- category 1, marking **II 1 GD Ex ia IIC Ex ia IIIC (cod. 1GD)**;

**Temperature classes** <sup>(1)</sup>,

-T6 (T85°C)Ta ≤ 60 °C (**cod. T6B**).

**Measuring ranges:** 0...1/0...25 bar, relative.

**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>(2)</sup>.

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

**Long term drift:** ≤ 0,2 % of span.

**Stocking temperature:** -10...+60 °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:** piezoresistive cell for pressure ranges < 1 bar;

ceramic cell for pressure ranges ≥ 1 bar.

**Filling fluid of piezoresistive cell:** silicone oil.

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

**Sensor gasket:** VITON (**Cod. FPM**).

**Electric connection:** poliurethane cable, compensated.

**Protection:** submersible.

**Weight:**

for pressure ranges 1 bar = 0,28 kg;

for pressure ranges ≥ 0,6 bar = 0,22 kg.

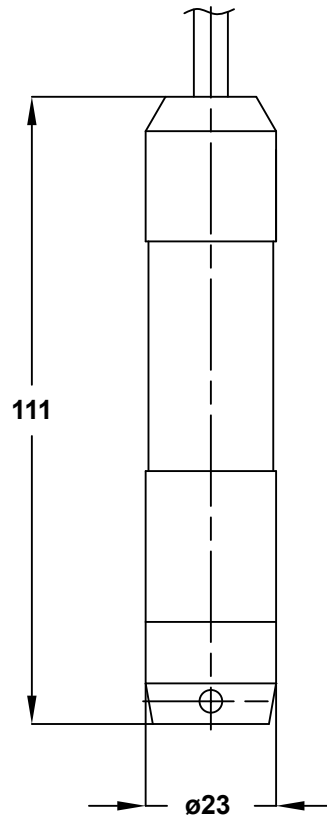
(1) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature;  
"Tp" & "Ta" ≥ -20 °C.

(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)

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

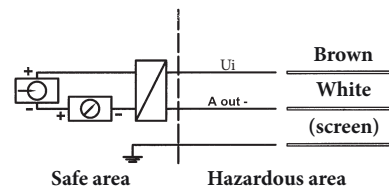
Other ranges available on demand. Units of measurement available in psi, MPa, kPa too.

Complying to standards: ATEX 2014/34/EU- EMC 2014/30/EU - PED 2014/68/EU - RoHS 2011/65/CE



dimensions : inches (mm)

Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (U_i - 10) / 0,02$
Supply ( $U_i$ )	10...30 Vdc
Max current ( $I_i$ )	$\leq 100$ 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 / Output signal / Classification / Temperature / Cable type / Gasket  
**8 XLV 1 1GD T6B I FPM**