SEN- TRAN

Electric pressure sensor family

The sensor produced in semiconductor technology is made up of resistance accomplished on a homogen monochristal silicon blank. The four active resistance (max. 3,5 kOhm) make an open Wheatstone bridge.

The cell is fixed on a glass insulated holder free of mechanical tension. Its casing is stainless steel. The part of the casing towards the measuring pressure is closed by a 0,02 or 0,05 mm thick stainless steel membrane.

In the sensor made this way, the pressure transmitter medium is AK20 type silicon oil.

The pressure to be measured has an effect on the sensor through the membrane and the oil charge.

Technical data:

Type numbers

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	Range of environmental temperature (°C)
0	-50 ... +60
1	-25 ... +60
2	+5 ... +55

	Measuring range (bar)	
109	0 ... 0,6	A, R
110	0 ... 1	A, R
111	0 ... 1,6	A, R
112	0 ... 2,5	A, R
113	0 ... 4	A, R
114	0 ... 6	A, R
115	0 ... 10	A, R
116	0 ... 16	A, R
117	0 ... 25	A, R
118	0 ... 40	A
119	0 ... 60	A
120	0 ... 100	A
121	0 ... 160	A
122	0 ... 250	A
123	0 ... 400	A

	Class of accuracy
0	0,25
1	0,4

Notes:
At the measuring range:
"A" – means absolute,
"R" – means relative pressure sensor design
The additional error comes from the change of the atmospheric pressure is insignificant at a measuring range over 40 bars.

Output signal (at 1 mA bridge current) : min. 120 mV

Overload : 50%

Repeating error :	< 0,1% (a végértékre vonatkoztatva)		
Temperature error of :	-50 ... +60 °C	-20 ... +60 °C	+5 ... +55 °C
• Zero :	< 0,4 mV/10 °K	< 0,3 mV/10 °K	< 0,25 mV/10 °K
• Sensitivity :	< 0,3 mV/10 °K	< 0,25 mV/10 °K	< 0,2 mV/10 °K

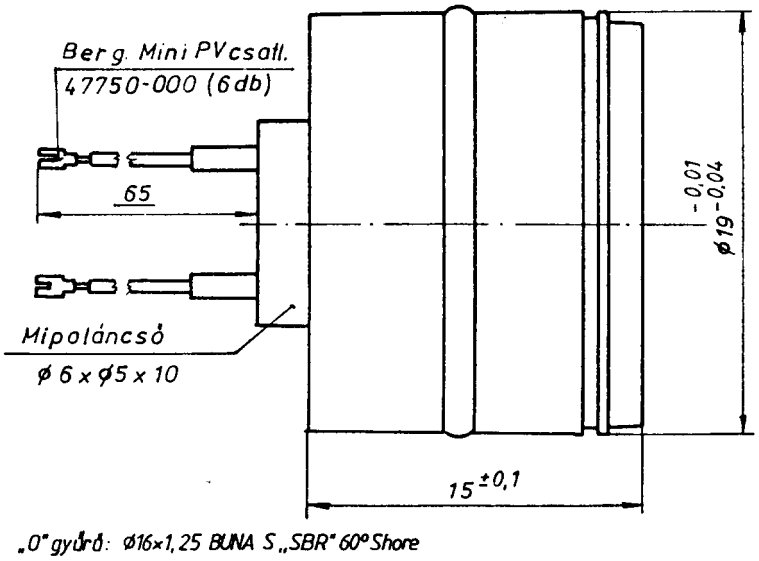
- Sensor with less temperature error can be ordered at request

Long time stability: jobb, mint 0,25% / 6 month

Material:

- Casing : KO 36
- Membrane : X2CrNiMo 1810 DIN 17440

Weight: 23 gr



Outline drawing