

PSSN**Pressure transmitter for hydrostatic level measurement****Main features**

- **High long term stability**
- **Abrasive and chemical resistant**
- **Accuracy class of 1% FS**
- **Ceramic sensor**

**Applications**

- | | |
|---|--|
| <ul style="list-style-type: none"> ■ Process technic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Refrigeration ■ Water treatment <input type="checkbox"/> Car industry <input type="checkbox"/> Test benches <input type="checkbox"/> Safety <input type="checkbox"/> Aerospace <input type="checkbox"/> Railways ■ Shipbuilding <input type="checkbox"/> Heavy vehicle | <ul style="list-style-type: none"> <input type="checkbox"/> Health care <input type="checkbox"/> Biotechnology ■ Food ■ Beverage <input type="checkbox"/> Pharmaceutical ■ Petro-chemical ■ Chemical <input type="checkbox"/> HVAC ■ Energy <input type="checkbox"/> Medical gas <input type="checkbox"/> Agriculture vehicles ■ Pumps and compressors |
|---|--|

Main characteristics

Long term stability	0.3% FS / Year
Accuracy	1% FS
Medium temperature	5 ... 40 °C

Model / type PSSN

Technical specification

Measuring principle	Thick film on ceramic
Measuring ranges	0 ... 6 mH ₂ O 0 ... 10 mH ₂ O 0 ... 16 mH ₂ O 0 ... 20 mH ₂ O
Type of pressure	Relative
Accuracy (20°)	1% FS
Annual stability	0.3% FS / Year
Response time (10...90%)	5 ms
Switch on time	< 350 ms
Versions	Open or closed Version (see drawing page 4)

Weight

Transmitter	0.200 kg
Cable	0.048 kg / meter

Environment

Temperature	
Medium	5 ... 40 °C
Storage	-25 ... 80 °C
Protection rating	IP 68
Vibration IEC60068-2-6	1.5 mm p.p (10-57 Hz), 10 g (58 Hz – 2 KHz) 10 cycles within 2.5 h per axis
Shock IEC60068-2-27	50 g / 11 ms 100g / 6 ms 10 x Imp. per axis and direction
Bump IEC60068-2-29	100 g / 2 ms 4000 x Imp. per axis and direction
Random IEC60068-2-64	0.1 g 2 / Hz (20 Hz - 1 KHz) 30 min per axis and direction (> 10 g RMS)

Electrical specification

Output signal	4 ... 20 mA
Power Supply	8 ... 30 VDC
Load impedance	
Current output	$R\Omega = (U_{\text{Supply}} - 8 \text{ V}) / 0.02 \text{ A}$
Insulation resistance	>100 MΩ to 500 VDC
Electrical connections	PUR Cable with capillary tube

Material

Housing	Stainless steel 1.4404 AISI 316L
Diaphragm	Ceramic Al ₂ O ₃ (96%)
Cable	PUR black with integrated humidity filter
Sealing cable gland	NBR
O-ring sensor	NBR

Approvals

CE conformity	EMC directive 2004/108/CE in accordance with EN 61000-6-2, EN 61000-6-3, EN 61326-1 (Tab.2) Pressure directive 97/23/CE
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Measuring Ranges

Measuring range (mH ₂ O)	Pressure (bar)			
	0 ... 6	0 ... 10	0 ... 16	0 ... 20
Pressure range (bar)	0 ... 0.6	0 ... 1	0 ... 1.6	0 ... 2
Overpressure (bar)	2	2	4	4
Burst pressure (bar)	4	4	5	5

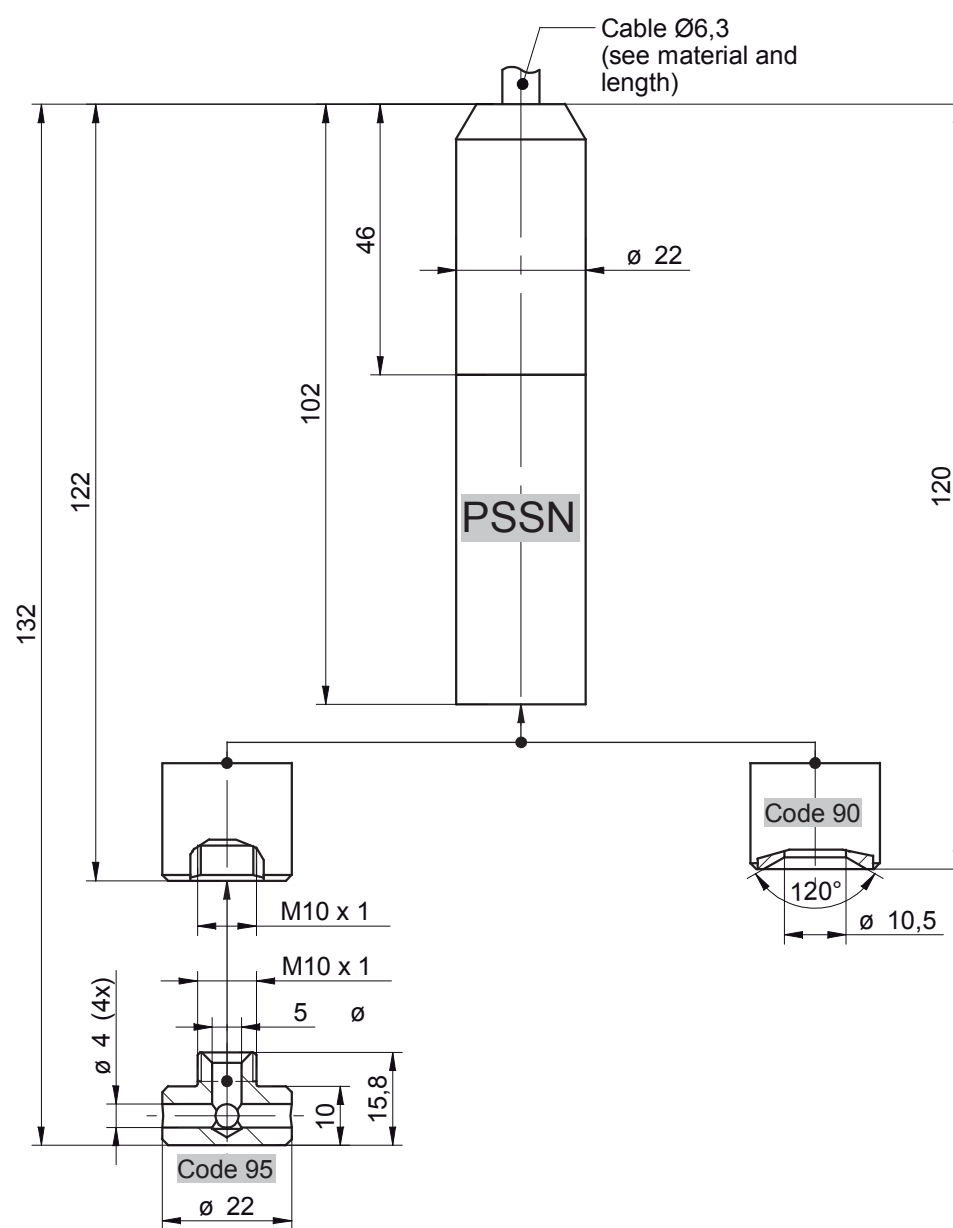
Model / type PSSN

Electrical connections

Cable output with integrated capillary tube
(length according to the ordering code)

Connection
4 ... 20 mA
+ Supply : Red
- Supply : Blue
⏏ : Shield

Dimensions (mm), connections



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