

**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**

- **Process technic**

- Hydraulic
- Pneumatic
- Refrigeration

- **Water treatment**

- Car industry
- Test benches
- Safety
- Aerospace
- Railways

- **Shipbuilding**

- Heavy vehicle

- Health care

- Biotechnology

- **Food**

- **Beverage**

- Pharmaceutical

- **Petro-chemical**

- **Chemical**

- HVAC

- **Energy**

- Medical gas
- Agriculture vehicles

- **Pumps and compressors**

**Main characteristics**

Long term stability	0.3% FS / Year
Accuracy (Linearity, hysteresis, repeatability, error of span and zero point)	1% FS
Medium temperature	5 ... 40 °C

## Ordering details - PSSN

	PSS	N	2	1	J15	R	A1	U1	90	2	1	
<b>Model / type</b>												
PSS	N											
<b>Material</b>												
Stainless steel 1.4404 AISI 316L			2									
<b>Accuracy</b>												
1.00% FS				1								
<b>Pressure range</b>												
0 ... 6 mH <sub>2</sub> O					J12							
0 ... 10 mH <sub>2</sub> O					J15							
0 ... 16 mH <sub>2</sub> O					J16							
0 ... 20 mH <sub>2</sub> O					J17							
<b>Pressure type</b>												
Relative						R						
<b>Output signal</b>												
4 ... 20 mA								A1				
<b>Cable length</b>												
PUR 10 meter									U1			
PUR 15 meter									U2			
PUR 20 meter									U3			
PUR 25 meter									U4			
<b>Versions</b>												
Open										90		
Closed protection cap POM material										95		
<b>Material diaphragm</b>												
Ceramic											C	
<b>O-Ring sensor and sealing cable</b>												
NBR											1	

## Model / type PSSN

### Technical specification

<b>Measuring principle</b>	Thick film on ceramic
<b>Measuring ranges</b>	0 ... 6 mH <sub>2</sub> O 0 ... 10 mH <sub>2</sub> O 0 ... 16 mH <sub>2</sub> O 0 ... 20 mH <sub>2</sub> O
<b>Type of pressure</b>	Relative
<b>Accuracy (20°)</b> <small>(Linearity, hysteresis, repeatability, error of span and zero point)</small>	1% FS
<b>Annual stability</b>	0.3% FS / Year
<b>Response time (10...90%)</b>	5 ms
<b>Switch on time</b>	< 350 ms
<b>Versions</b>	Open or closed Version (see drawing page 4)

### Weight

<b>Transmitter</b>	0.200 kg
<b>Cable</b>	0.048 kg / meter

### Environment

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

### Electrical specification

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

### Material

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

### Approvals

<b>CE conformity</b>	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 <sub>2</sub> O)	Pressure (bar)			
	0 ... 6	0 ... 10	0 ... 16	0 ... 20
<b>Pressure range (bar)</b>	0 ... 0.6	0 ... 1	0 ... 1.6	0 ... 2
<b>Overpressure (bar)</b>	2	2	4	4
<b>Burst pressure (bar)</b>	4	4	5	5

## Model / type PSSN

## Electrical connections

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

Connection

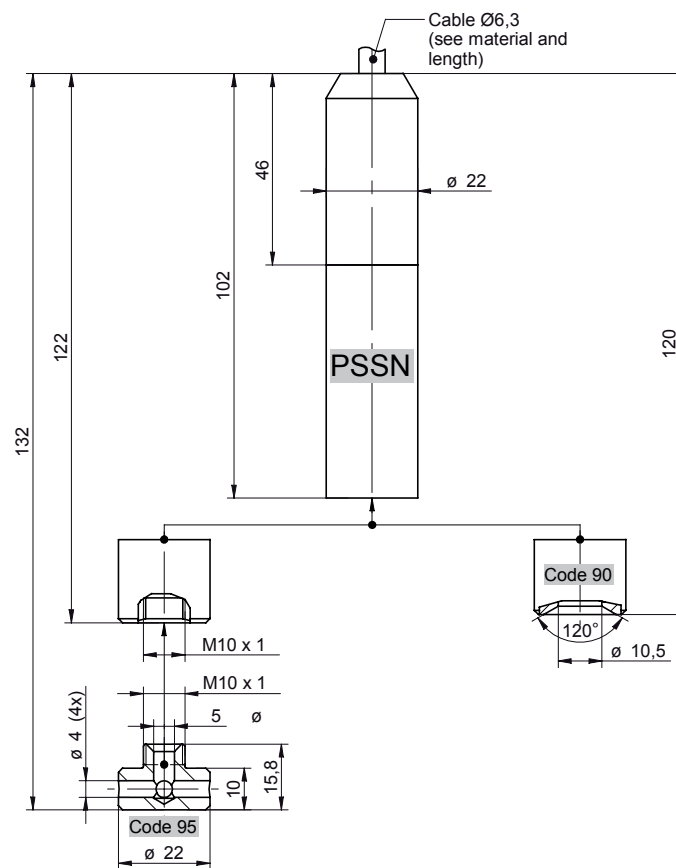
4 ... 20 mA

+ Supply : Red

- Supply : Blue

⏏ : Shield

## Dimensions (mm), connections



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