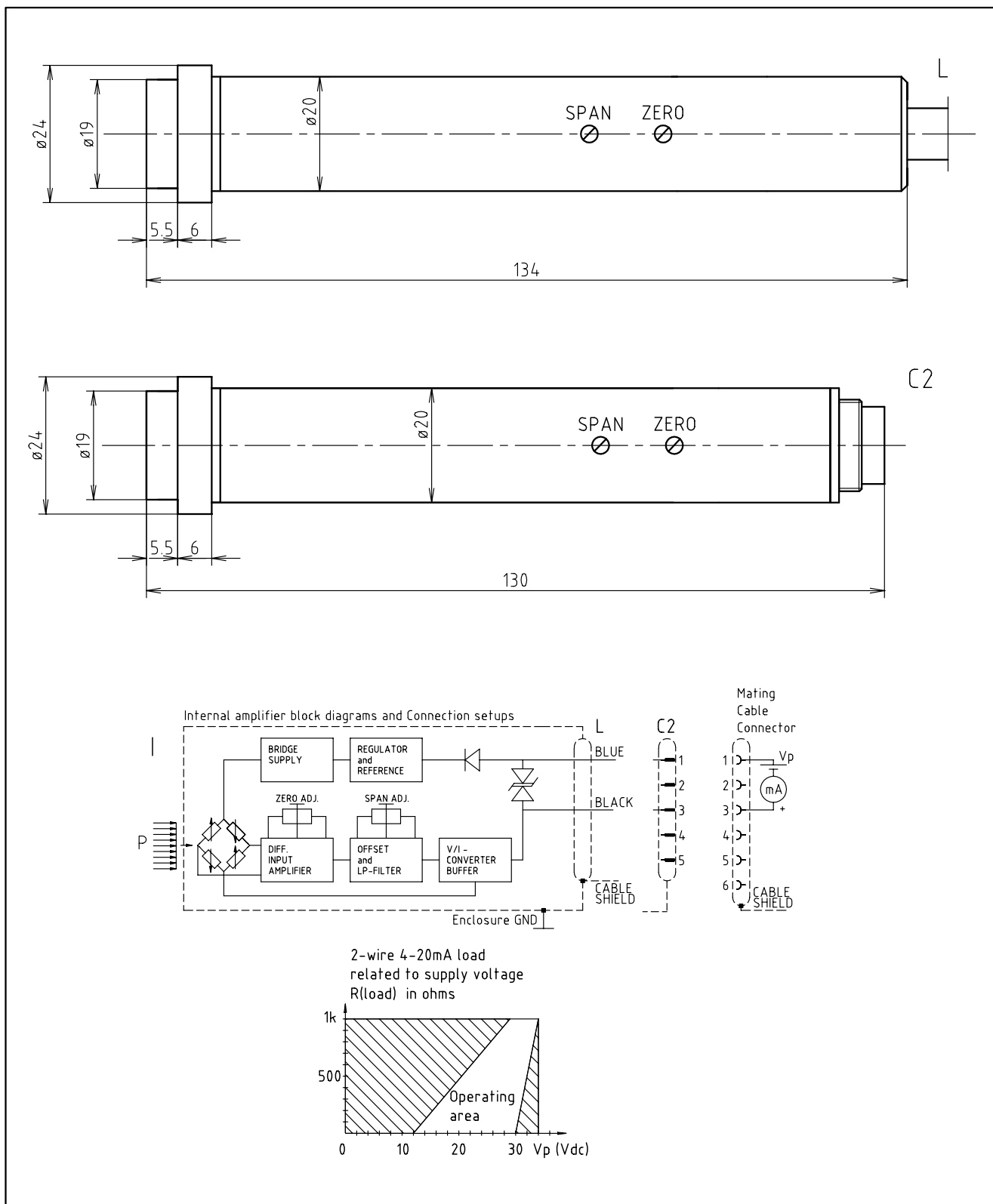


# PRESSURE TRANSMITTER TYPE PS



## DESCRIPTION

The pressure transmitter type PS is based on a piezoresistive sensor chip which is housed in a fluid-filled cylindrical cavity and isolated from the medium by a stainless steel diaphragm and body. The stainless steel part is laserwelded to the stainless steel tube which contains the amplifier. The backside of the sensor is ventilated to the atmosphere. The transmitter has a zero and a gain adjustment. The cable shield is connected to the stainless steel housing.

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1.3.1.1

**H F JENSEN**  
SENSOR TECHNOLOGY

## SPECIFICATIONS

Pressure range	0.2, 0.5, 1, 2, 4, 5 or 10 bar gauge. 2, 5, 10, 20, 40, 50 or 100 mWC gauge. Intermediate ranges possible.
Pressure limits	1.5 times rated pressure
Material	Stainless steel AISI 316.
Supply voltage	12-30 V <sub>DC</sub> , 4 mA + output signal current.
Supply voltage effect	< 0.03 %/V
Output signal	4-20 mA      2-wires      (R <sub>L</sub> see diagram).
Frequency range	DC-300 Hz (-3 dB)
Temperature range	
- operating	-10 °C to 85 °C.
- compensated	0 °C to 50 °C.
Temperature coefficient of zero and sensitivity	< ± 2% FSO 0°C to +50°C ( with reference to+25°C)
Non-linearity	< ± 0.25 % (typical < ± 0.1 %).
Repeatability	< ± 0.05 %.
Long term stability - offset	< ± 0.2 % for 1 year (typical< ± 0.1 %).
Long term stability - sensitivity	< ± 0.2 % for 1 year (typical< ± 0.1 %).
Transducer weight	100 grams.
Cable (Standard 2 m)	Outer insulation: Ø9 mm black PUR. Wires: 5x0.5 mm <sup>2</sup> PVC insulated wires + 2 supporting wires. Ventilation: ø2.5 mm polyamid capillary tube. Weight: 70 g/m.
Connector	Binder: 09-0115-00-05.
Protection class	IP67.
Pressure connections	With adaptor type AP or AWP (see datasheet 1.8.2).

## ORDERING INFORMATION

