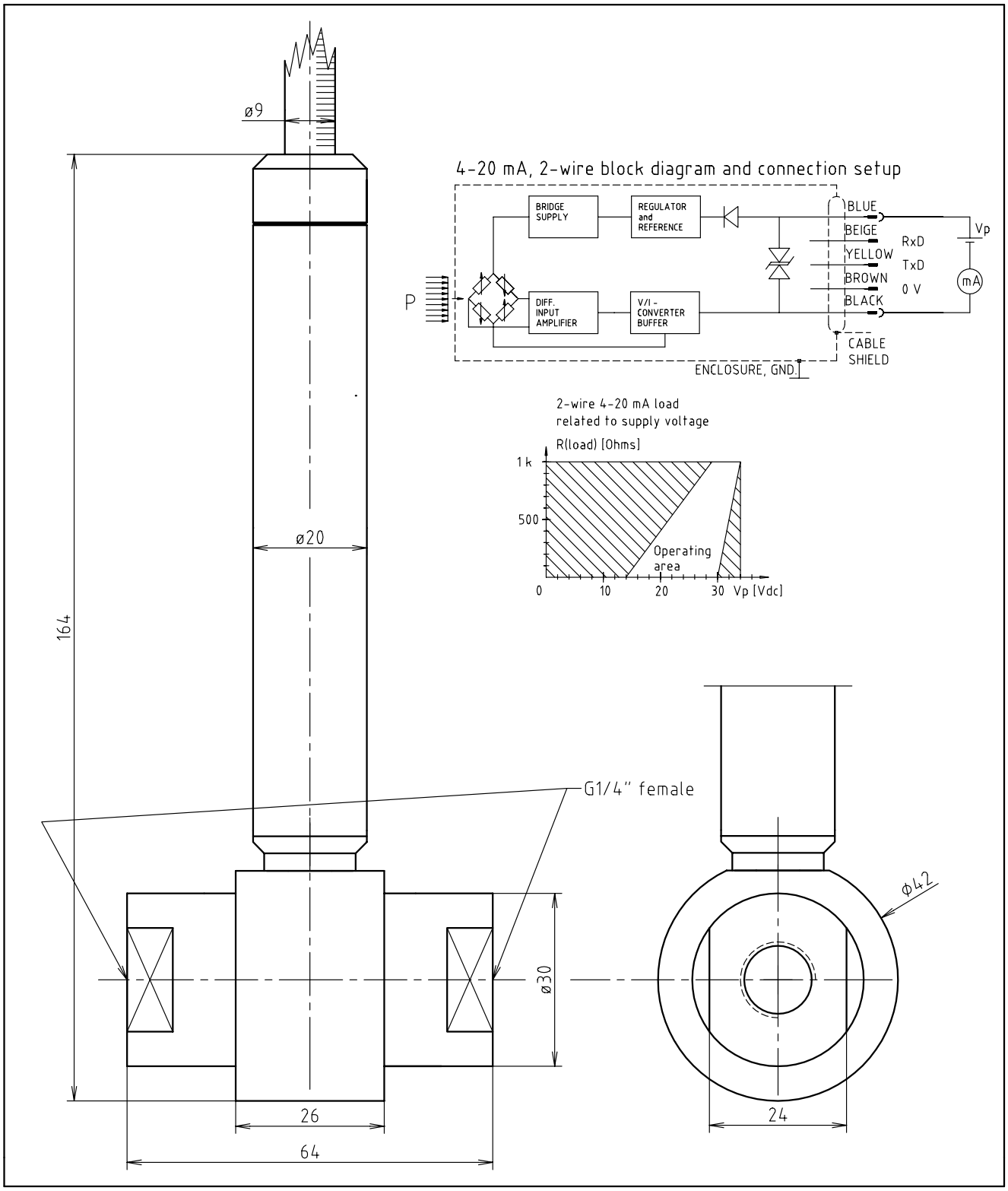
DIFFERENTIAL PRESSURE TRANSMITTER
TYPE PDS x L/x
(submersible)



DESCRIPTION

PDS uses a piezoresistive differential pressure sensor as sensing element. The two pressure ports act upon a piezoresistive bridge diffused into a silicon diaphragm, which provides high overload capabilities together with excellent linearity, hysteresis performance and fast response. The integral two wire electronics provide excitation and conditioning of the bridge signal to generate a 4 – 20 mA output.

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SPECIFICATIONS

Standard range	50 mbar, 100 mbar, 200 mbar 500 mbar, 1 bar, 2 bar
Non-linearity and hysteresis	< ± 0.5 % of FSO from best fit straight line
Overpressure	200 % FS positive pressure port , or min 700 mbar 100 % FS negative pressure port, or min 350 mbar
Line pressure	10 bar max
Output	4 – 20 mA $_{DC}$, 2 –wire, R_L : see diagram, C_L < 1 µF
Supply voltage	12 – 30 V_{DC},
Supply voltage effect	< 0.03 %/V
Pressure media	Liquids and gases compatible with AISI 316L
Temperature range **- compensated** **- operating**	 0 °C to +50 °C -10 °C to +80 °C
Temperature coefficient of sensitivity	< 0.05 %/°C
Temperature coefficient of zero point	< 0.05 %/°C/FS
Response time (0 – 100 %)	10 msec
EMC Emission and Immunity	EN 61326
Surge immunity	According to IEC 61000-4-5: 1995 + Corr1:1995 2 kV/42 Ohm between wires 4kV/2 Ohm on cable shield
Pressure connection	G¼" female
Submersible	Min. 100 m Water column
Cable	Outer insulation: ø9 mm black PUR. Wires: 5x0.5 mm^2 PVC insulated wires + 2 supporting wires. Ventilation: ø2.5 mm polyamid capillary tube. Used for helium leak test. Weight: 70 g/m.
Weight	300 g

ORDERING INFORMATION

PDS x L/x

- Cable length
- Pressure range (bar) P_1 / P_2 — P_1 equal 4 mA, P_2 equal 20 mA

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