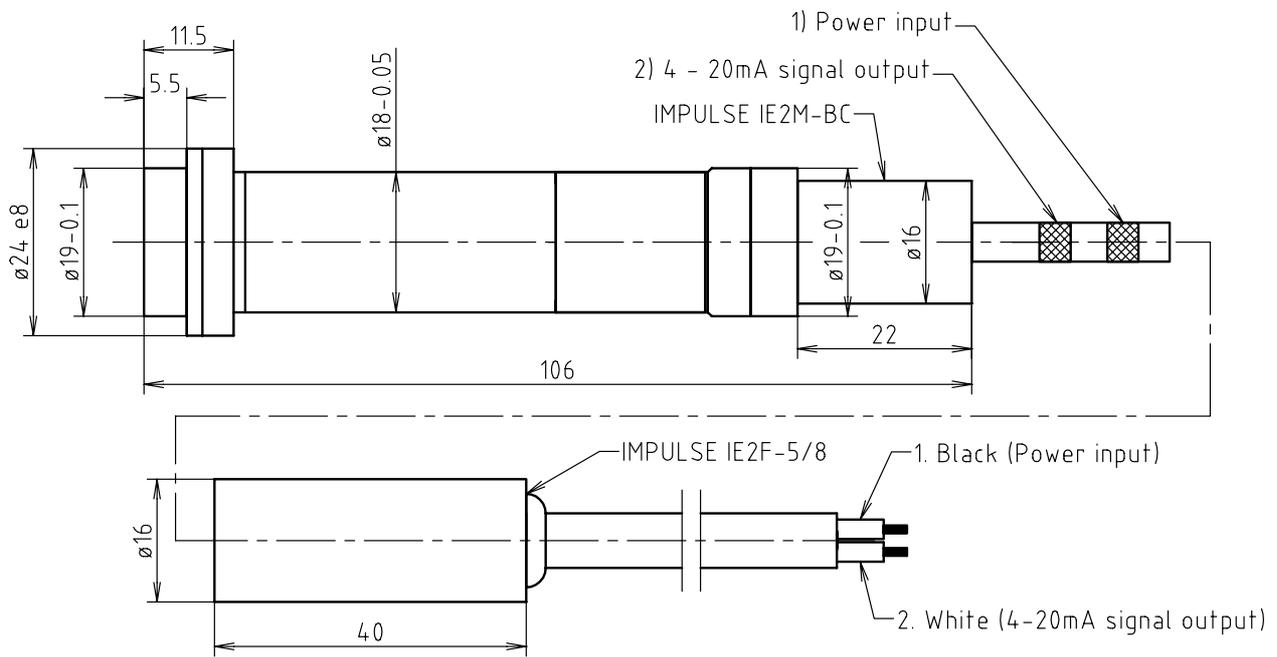
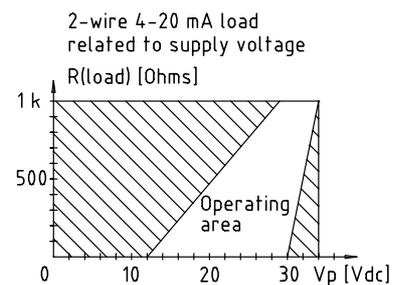
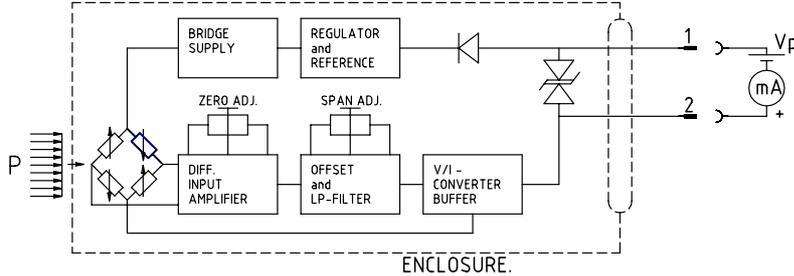


PRESSURE TRANSMITTER PTIP x IE2 (submersible - pluggable)



Internal amplifier block diagrams and Connection setup



DESCRIPTION

The sensing element of the pressure transmitter is a diaphragm machined out of Titanium Grade 5. On the inside of the diaphragm is mounted a strain gauge, which converts the pressure generated deformation to a change in resistance. Titanium Grade 5 is characterized by excellent corrosion data, very high 0.1 % proof stress of 85 kp/mm², very little hysteresis and excellent longterm stability. The built-in amplifier supplies the bridge, amplifies the output voltage and converts it into a current. The circuit is protected against transients at the supply voltage line and the output signal line. The amplifier is mounted in a titanium tube which is laserwelded in both ends to respectively the diaphragm part and the cable part.

SPECIFICATIONS

Pressure range	10, 20, 50, 100, 200, 300, 400, 500 or 1000 bar, sealed reference
Pressure limits	4 times rated pressure without damage
Material	In contact with pressure media: Titanium grade 5 Housing: Titanium grade 2
Power requirement	12-30 V _{DC} , 4 mA _{DC} + output signal current
Supply voltage effect	< 0.03 %/V
Output signals and load	4-20 mA _{DC} , 2-wire, (R _L see diagram)
Non-linearity incl. hysteresis	< 0.5 % of FSO from best fit straight line
Response time	6 ms within 2 % of final value
Temperature range	-5 °C to +70 °C
Temperature coefficient of zeropoint	< 0.02 %/°C of FSO
Temperature coefficient of span	< 0.02 %/°C of signal output
Environmental conditions <ul style="list-style-type: none">- vibration- shock- electromagnetic immunity- electromagnetic emission	According to IEC 68-2-6 (10-150 Hz, 0.35 mm/5g) According to IEC 68-2-27 (1000 g half sine, 1 ms) According to EN 50082-2 (generic industrial standard) According to EN 50081-2 (generic industrial standard)
Connector (IMPULSE)	Type:IE2M-BC Underwater pluggable Neoprene male bulkhead connector with stainless steel body.
Mating Connector (IMPULSE)	Type: IE2F-5/8 Underwater pluggable Neoprene female inline connector on nominal 24" 18 AWG SJO cable.
Connector rating	Bulkhead connector design open face pressure Rating to 350 bar Up to 700 bar pressure rating in mated condition
Transducer weight	75 g without mating connector

ORDERING INFORMATION

PTIP x IE2

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 └───┘ Pressure range in bars