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Piezoelectric Pressure Transducer Model CL31

Description:

Mod. CL 31 incorporates a piezo column as the sensing element which converts the mechanical pressure signal into an electrical output signal. The characteristics of the piezo material allow for the measurement of very fast pressure changes. Its high sensitivity gives a high output signal which results in a high measurement accuracy. Due to the high measuring range, the transducer is particularly useful for the measurement of injection pressures with modern combustion engines.



Technical Specifications:

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|---|---------------------------------|
| Range in Bar: | 240 bar; 640 bar; 1000 bar |
| Permitted Overload: | ≤ 50 % |
| Sensitivity: | 20 pC/bar |
| Capacitance: | 8 pF |
| Linearity | ± 0,5 %; 1 % |
| Hysteresis: | ± 0,2 % |
| Temperature Stability: | ± 0,1 %/10 K |
| Resistance: | 10 ⁸ MΩ |
| Accuracy Class: | 0,5; 1 or 2 |
| Natural Frequency: | ≥ 50 kHz |
| Vibration Strength: | ≤ 10 g/ms @ frequencies ≤ 2 kHz |
| Impact Strength: | ≤ 10 g/ms |
| Operating Temperature Range: | - 20 °C to 50 °C |
| Pressure Medium Temperature Range: | - 20 °C to 80 °C |
| Permitted Rel. Humidity: | 80 % |
| Protection Standard: | IP54 |
| Mounting Thread: | M14x1,25 |
| Dimensions: | Wrench size 17 x 46 mm |