

CERAMIC PRESSURE SENSORS FOR OFF-HIGHWAY OEMs



Kavlico has introduced a new line of ceramic capacitive pressure sensors for high-volume OEM applications in the construction and agricultural vehicle markets.

Kavlico has introduced a new family of ceramic capacitive pressure sensors that the Moorpark, California, U.S.A., manufacturer said are specifically suited for high-volume OEM applications in the construction and agricultural vehicle markets. Kavlico is part of Schneider Electric and its global business unit Custom Sensors & Technologies (CST).

Typical off-highway vehicle applications are expected in sensing crankcase overpressure, engine oil pressure, HVAC and automatic transmission pressure. Kavlico said the newly designed sensor package is small and lightweight (40 g), featuring a brass housing and an accuracy specification of $\pm 1\%$ of full scale including linearity, repeatability and hysteresis over the normal operating temperature range of -30° to 100°C .

Kavlico said the sensors are capable of withstanding high shock, EMC and vibration environments typically found in vehicle applications.

Available in pressure ranges of zero to 1.03 and zero to 34.47 bar, the sensors are powered by a regulated 5 Vdc power supply and provide an output proportional to pressure with the customer-specific output rails. Overpressure capability is three times pressure ranges of zero to 1.03 through zero to 20.68 bar and two times pressure for the zero to 34.47 bar range.

Fully temperature compensated, the sensors are designed for excellent EMI/EMC performance and superior output stability, Kavlico said. A selection of pressure ports and electrical connector options are available to suit each application-specific requirement.

Utilizing its standard pressure sensor and transducer design concepts, Kavlico also manufactures custom sensors for application-specific OEM requirements. Individual applications can specify the materials of construction, the process connector, the electrical connector, output format, pressure range, housing design and size,

as well as other critical operating parameters.

Applications for Kavlico's custom sensing have included diesel, CNG and SI engines and alternative fuel cell management systems for non-automotive as well as trucks, construction equipment, vocational vehicles, locomotives, transportation equipment, recreational vehicles of various types, agricultural equipment, generators, military equipment, general aviation aircraft and marine applications. ♦

**TO REQUEST MORE INFORMATION
ON THIS COMPANY**

