

## New Ceramic Pressure Sensors from Kavlico



Kavlico has introduced a new line of ceramic capacitive pressure sensors for high-volume OEM applications.

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 applications. Kavlico is part of Schneider Electric and its global business unit Custom Sensors & Technologies (CST).

Typical applications are expected in sensing crankcase overpressure and engine oil 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  $-30^{\circ}$  to  $100^{\circ}\text{C}$ .


Kavlico said the sensors are capable

of withstanding the high shock, EMC and vibration environments typically found in vehicle applications.

Available in pressure ranges of zero to 1.0 and zero to 34 bar, the sensors are powered by a regulated 5.0 Vd.c. 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 2.0 through zero to 22 bar and two times pressure for the zero to 35 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 is 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 has included diesel, CNG and SI engines and alternative fuel cell management systems for non-automotive as well as generators, military equipment, general aviation aircraft and marine uses. 

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