

PS162/PS312

Ceramic Capacitive OEM High and Low Pressure Sensing Modules

Typical Applications

Industrial Pumps & Compressors
 Refrigeration
 Heating, Ventilation and Air-conditioning (HVAC)
 Steam Sterilizers, Boilers & Dryers
 Test & Monitoring Equipment
 Process Controls
 Facility Management
 Mechanical Engineering
 Filter Restriction
 Fuel Cells
 Hydraulics Systems
 Process Controls
 Level Measurement
 Water Management
 Power Generators



Description

Kavlico's OEM Pressure sensing modules utilize our more than 30-year field-proven ceramic capacitive sensing technology and are intended for high volume applications. Millions of Kavlico sensors are installed worldwide in a variety of industrial and transportation applications.

These RoHS compliant modules are equipped with a robust flush mounted ceramic sensing diaphragm that is compatible with most industrial fluids and gaseous media. The standard housing material is a Brass Spacer, and the standard electrical connection is 3 Isolated Wires 0.15 mm, 2 – 75mm Long. The module allows for easy integration and installation into final assemblies for a wide variety of applications.

With a 10-year minimum shelf life and a lifetime of millions of pressure cycles, Kavlico's ruggedly designed modules are made to last.

Standard Full Scale Pressure Ranges

PS162: 0-200 mBar up to 0-200 Bar
 PS312: 0-50 mBar up to 0-20 Bar

Features

- Media resistant
- Superior long-term stability & repeatability
- High overpressure capability
- Shock & vibration resistant

Technical Specifications

Standard Full Scale Pressure Ranges 0-50 mBar up to 0-200 Bar

PS162

Linearity (BFSL): $\pm 0.1\%$ FS Typ. / $\pm 0.2\%$ FS Max.
 Stability: $\pm 0.1\%$ FS Typ. / $\pm 0.25\%$ FS Max.
 Nominal Output Voltage: 1.0 to 4.0Vdc or 0.5 to 4.5 Vdc
 Supply Current: 2.2 mA (Max.) at 5 Vdc

PS312

Linearity (BFSL): $\pm 0.1\%$ FS Typ. / $\pm 0.2\%$ FS Max.
 Stability: $\pm 0.1\%$ FS Typ. / $\pm 0.25\%$ FS Max.
 Nominal Output Voltage: 1.0 to 4.0Vdc or 0.5 to 4.5 Vdc
 Supply Current: 2.2 mA (Max.) at 5 Vdc

PS162 & PS312

Total Error Band (TEB)¹: $\pm 1.0\%$ FS (20°C to +85°C)
 Supply Voltage: 5.00 Vdc ± 0.25 Vdc
 Over Voltage: 7 Vdc
 Operating Temperature Range: -40°C to +125°C
 Electrical Connection: 3 Isolated Wires 0.15 mm, 2 – 75mm Long
 Red: +Vcc, Green: +Out, Black: GND

TC Zero per 10k: $\pm 0.05\%$ Typ. $\pm 0.10\%$ Max.
 TC Span per 10k: $\pm 0.05\%$ Typ. $\pm 0.10\%$ Max.
 Response / Start up Time: < 10ms at 63%
 Load Resistance: > 25 k Ω
 Service Life: 10 Million Full Scale Cycles Min.
 Wetted Materials: Ceramic Al₂O₃, External Gold Coating on Diaphragm

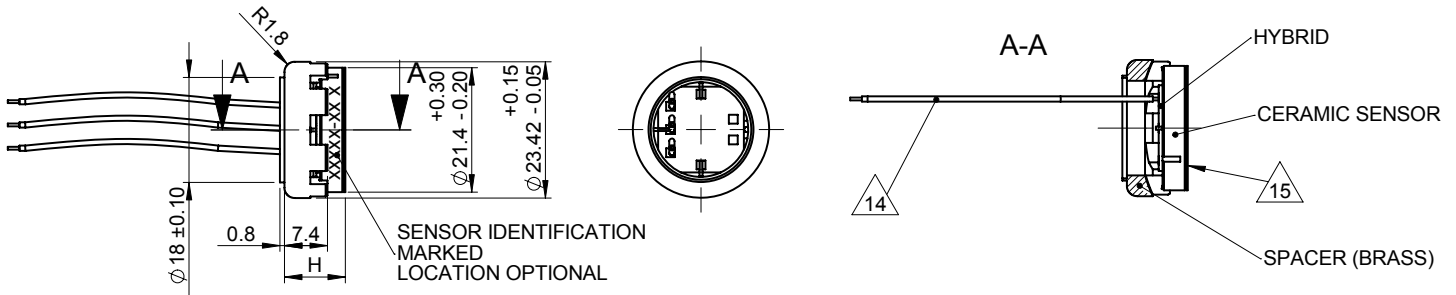
Process Media: All Gases and Liquids Compatible with Ceramic Al₂O₃ and Gold
 EMI: Dependent upon Customer Packaging

¹) Total Error Band includes all sources of error, including effects of Offset, Span, Temperature and Accuracy

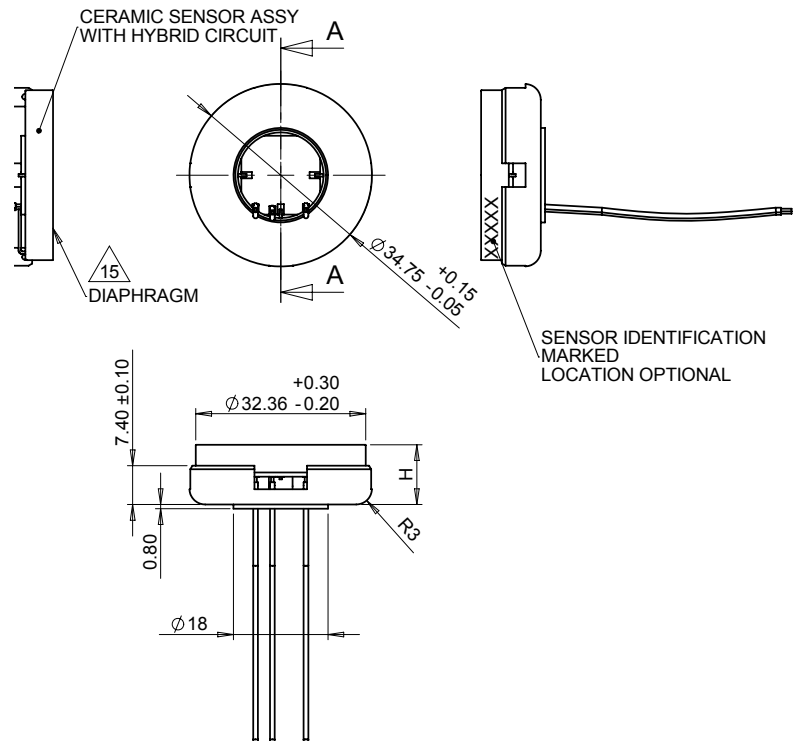
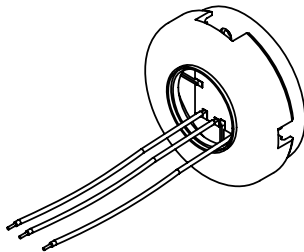
PS162/PS312 Ceramic Capacitive OEM High and Low Pressure Sensing Modules

Dimensions in: mm [inches]

PS162



PS312



Contact Kavlico directly at
+49-571-3859-0
to customize this product to meet
your application-specific needs!



Kavlico GmbH
Potsdamer Str. 14 32423 Minden, Germany
Tel: +49-571-3859-0 • Fax: +49-571-3859-119
Web: www.kavlico.com
Email: info@kavlico.de

Kavlico's General Terms & Conditions apply and can be found at www.kavlico.com

