

P356

Low Pressure Differential/Gage Transducers

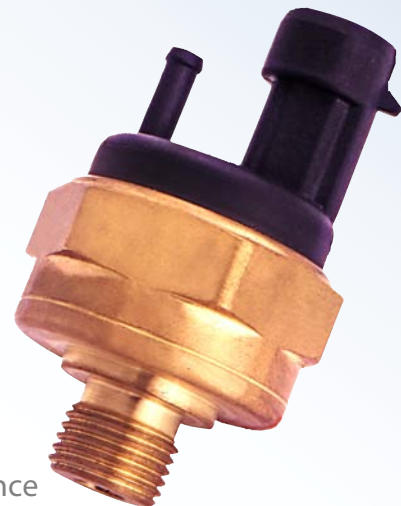
Description

The model P356 is based on Kavlico's field-proven ceramic capacitive technology. The brass housing surrounds a low-pressure transducer designed specifically for pressures between 0.5 PSI and 5 PSI. It is available in both gage (with a protective cap) and differential versions.

The P356 package has a built-in Metri-Pack 150, electrical connector, a ¼-18 NPT main pressure fitting and a ¼" hose fitting for the differential reference port (low side).

Features

- Superior Long Term Stability
- Excellent Repeatability/Hysteresis
- EMI/RFI Protection
- Low Power Consumption
- Linear Amplified Output
- Temperature Compensated Over a Large Range
- Over-Voltage, Reverse Polarity & Short Circuit Protection
- Ten Million Cycle Life Expectancy
- Outstanding Shock & Vibration Performance
- Main Port Suitable for Dry & Wet Media



Applications

- Water Tower Levels
- Waste Water Systems
- Crankcase Over-Pressure
- Plant Automation Equipment
- Pneumatic Controls
- Filter Monitoring
- Leak Detection

Standard Full Scale Pressure Ranges

0-.5, 1.0, 1.3 and 5.0
PSIG, PSID
- 0.5 to + 0.5, -1 to +1
PSIG, PSID

Technical Specifications

Note: Performance Specifications with 5v ± 0.002 Vdc supply at 25°C

Pressure Ranges: 0 – 0.5 PSI through 0 – 5.0 PSI
Gage or Differential
Proof Pressure: 2x Hi-side (1 PSI low-side)
Burst Pressure: 3x Hi-side (3 PSI low-side)
Supply Voltage: 5.00 ±0.25 Vdc
Supply Current: 3 mA (Max)
Response Time: 15ms Max to 63% of F.S. Pressure
with Step Change on Input.

Output Voltage:
Zero/Null Pressure: 0.50 ±0.08 Vdc
Full Pressure: 4.50 ±0.08 Vdc
Ratiometricity: 1.5% of F.S.
Total Error Band: ≤ 2.0% of Span (-20°C to + 100°C)
Output Impedance: < 100 Ω
Operating Temperature: -30°C to + 100°C
(Seal Material Dependent)

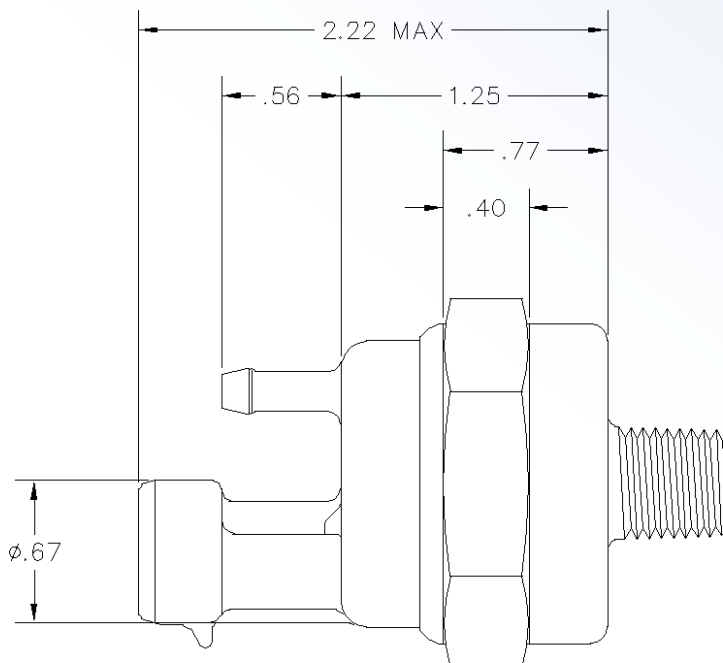
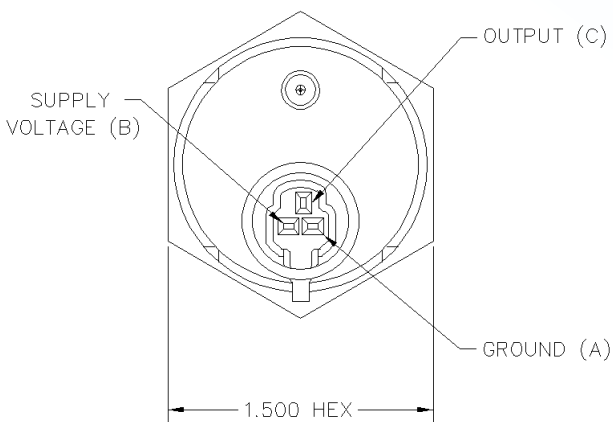
Storage Temperature: -40°C to + 125°C
Service Life: 10 Million Full Pressure Cycles
Vibration: 10G's P-P Sinusoidal, 10 Hz – 2 kHz
Shock: 75 G's ½ Sine Wave
Stability: ±0.5% of Full Span over 1-Year
Humidity: 99% Non Condensing
Weight: 128 grams Max
Electrical Termination: Metri-Pack 150, Electrical Connector
Preferred Mounting Position: None
Pressure Connection: ¼-18 NPT and ¼ Tube (low-side)
Recommended Interface
Impedance: Min. Load 25 kΩ
Over-Voltage Protection: 16 Vdc
Reverse Polarity Protection: -5 Vdc
Material-Main housing: CA360 Brass



P356

Low Pressure Differential/Gage Transducers

Outline Drawings



How to Order

P356 Low Pressure Differential/Gage Transducers

Pressure Ranges

A	0 – 0.5 PSI
DA	± 0.5 PSI
1	0 – 1.0 PSI
D1	± 1.0 PSI
1.3	0 – 1.3 PSI
3	0 – 3.0 PSI
5	0 – 5.0 PSI

Reference

D	Differential
G	Gage

Seal Material

D	Fluorocarbon (Viton)	-20 to 125°C
E	Fluorosilicone	-40 to 125°C

Pressure Connection

1	1/4-18 NPT (External Threads)
---	-------------------------------

Electrical Connection

A	With mating connector, w/12", 18 AWG leads
C	Without mating connector

P356 - 5 G - E 1 A

Example: P356-5G-E1A

Contact Kavlico for accuracy options, custom packaging, alternative pressure ranges, pressure connections or other OEM or application specific requirements.

Although possible applications for our product(s) and other statements are presented herein, Kavlico is not expert in the user's technical field and therefore does not warrant the suitability of its product(s) for the user's applications. Therefore, Kavlico will not accept any liability and provides no guarantee, responsibility, or warranties of any kind concerning the suitability or related to the use of its product(s) for the user's applications.

Additionally, Kavlico will not be liable and provides no guarantee, responsibility, or warranties of any kind concerning the suitability or related to the use of its product(s) for the life support market or to be used in life support systems, safety or emergency systems, critical care applications, human implantation, aviation, nuclear facilities or systems or any other applications where product failure could lead to injury to persons, loss of life, harm to the environment, or catastrophic property damage.

Kavlico warrants that its products will be free from defective materials and workmanship for a period of one (1) year from date of delivery to the original purchaser and that its products will conform to Kavlico's specifications or standards. Any product found to be defective will be replaced or repaired at the sole option of Kavlico.

Note: Kavlico reserves the right to change its specifications at any time without notice. Kavlico is not an expert in the customer's technical field and therefore does not warrant the suitability of its product for the application selected by the customer.

Kavlico products are manufactured or covered by one or more of the following patents: 1,799,995, 4,735,098, 4,924,702, 4,967,071, 4,974,117, 5,020,377, 5,233,875, 5,275,054, 5,315,877, 5,329,819, 5,349,864, 5,349,865, 5,349,867, 5,369,989, 5,415,036, 5,528,930, 5,540,086, 5,553,502, 5,576,251, 5,578,843, 5,656,780, 5,824,889, 5,907,278, 5,923,952, 5,929,498, 5,929,754, 5,935,189, 6,008,113, 6,041,658, 6,148,674, 6,178,829, 6,211,558 B1, 6,279,407, 6,297,733, 6,311,566, 6,351,132 B1, 6,404,184 B1, 6,495,388 B1, 6,505,398 B2, 6,553,812 B2, 6,564,642 B2, 6,581,468 B2, 6,583,631 B2, 6,584,853 B2, 6,605,904 B1, 6,683,464 B2 with other U.S. and foreign patents pending.



14501 Princeton Avenue | Moorpark, CA 93021

Tel (805) 523-2000 | Fax (805) 523-7125

Web: www.kavlico.com | E-Mail: sales@kavlico.com

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9