



CustomControlSensors

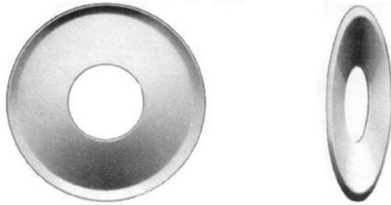
Dual Snap®

Pressure, Temperature and Liquid Flow

www.ccsdualsnap.com

Dual Snap® Pressure, Temperature, & Flow Switches

The Heart of the design...



- It's a convex disc spring with a center hole.



- It snaps to concave under pressure.
And it snaps back when pressure is released.

In the 1950's, CCS developed the first Dual Snap® pressure switches that quickly became the standard for reliability and quality. NASA quickly adopted them to deploy the parachutes on the Mercury, Gemini, and Apollo Programs. Soon after, all the major U.S. aircraft manufacturers started using CCS as their go-to source for pressure, temperature, and flow switch technology.

CCS is still the global leader in Dual Snap® pressure switches for not only the U.S. aerospace and defense market but internationally as well.

Types of switches offered using Dual Snap® technology:

- Pressure - Absolute, Gage, Vacuum and Differential
- Temperature
- Delta-P Flow



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Flexible Configurations

CCS offers standard designs for cost and schedule considerations or can customize a design to meet specific specifications.

Applications (Rotary and Fixed Wing)

- Fuel Systems
- Lubrication/Oil Systems
- Filter Systems
- Temperature Management
- Water (Potable and Waste)
- Hydraulic Systems (Flight Control, Landing Gear, Steering)
- Pneumatic Systems (Cabin Air and Environmental Control, Bleed Air)
- Anti-icing
- NGS

Tested and Proven

CCS switch technology meets the most demanding requirements including MIL-STD-810 and RTCA/DO-160.

Environmental tests including:

- salt spray, temperature cycling, humidity, sand and dust, moisture resistance;

Physical characteristic tests including:

- vibration, shock, and acceleration;

Electrical characteristic tests including:

- dielectric, insulation resistance and contact resistance

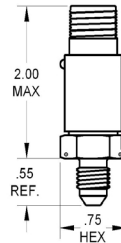
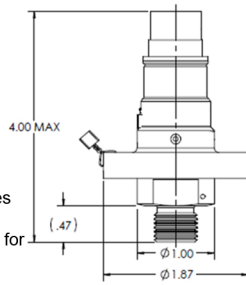
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1G Series Gage

Diaphragm Seal

- **Operating Range:** 0.5 to 100 PSIG
- **Proof Pressures up to:** 1,000 PSIG
- **Weight:** 4 oz. (approx.)
- **Service life:** 150,000 cycles at 100% of range.
- Low range pressure switch for fuel or pneumatic systems.



7G Series Gage

Diaphragm Seal

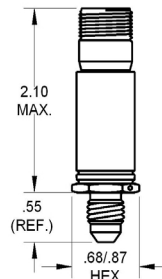
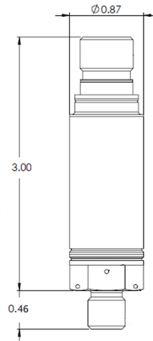
- **Operating Range:** 15 to 1000 PSIG
- **Proof Pressures up to:** 5,000 PSIG
- **Weight:** 2 oz. (approx.)
- Miniaturized switch for hydraulic, pneumatic or fuel systems.



7G Series Gage

Piston O-ring Seal

- **Operating Range:** 250 to 5,000 PSIG
- **Proof Pressures up to:** 12,000+ PSIG
- **Weight:** 3 oz. (approx.)
- **Service life:** 500,000 cycles at 100% of range.
- Gage pressure switch with piston type sensing element for hydraulic applications. High shock resistance.



8A and 8G Series Absolute * Gage

Diaphragm Seal

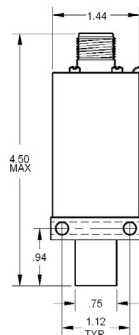
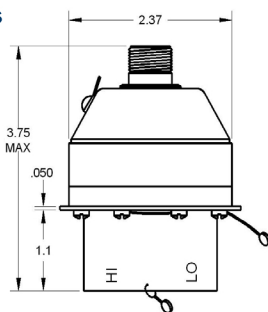
- **Operating Range:** Absolute Pressure: 0.5 to 300 PSIA
- **Gage Pressure:** 0.5 to 1,500 PSIG
- **Proof Pressures up to:** 500 PSIA or 5,000 PSIG
- **Weight:** 1.5 oz. (approx.)
- Miniaturized switch with high vibration and shock resistance for hydraulic, pneumatic or fuel systems.



42G and 42D Series Gage * Differential

Diaphragm Seal

- **Operating Range:** Gage Pressure: 1.5 to 100 PSIG
- **Differential Pressure:** 1.5 to 100 PSID
- **Proof Pressures up to:** 250 PSIG
- **Weight:** 9 oz. (approx.)
- Low range switches for hydraulic, pneumatic or fuel systems.



90G Series Gage

Piston O-ring Seal

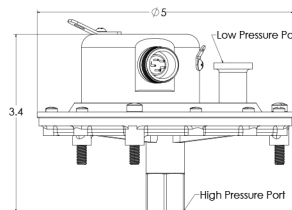
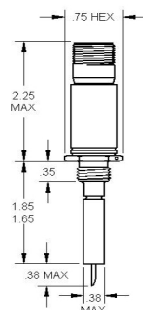
- **Operating Range:** 250 to 4,000+ PSIG
- **Proof Pressures up to:** 7,500+ PSIG
- **Weight:** 6 oz. (approx.)
- **Service life:** 500,000 cycles at 100% of range.
- Mid to high range gage pressure switch with piston type sensing element for hydraulic systems. High shock resistance.



150T Series Temperature Probe

Probe

- **Operating Range:** 25 to 800 degrees F
- **Proof Temperature:** 100 degrees F above set point standard.
- **Weight:** 2.5 oz. (approx.)
- Miniaturized switch with high vibration and shock resistance for hydraulic, pneumatic or fuel systems.



75D, 75G and 75V Series Differential * Gage * Vacuum

Diaphragm Seal

- **Operating Range:** .25" to 30" H2O
- **Proof Pressures up to:** 100 PSIG
- **Weight:** 12 oz. (approx.)
- Vacuum range suitable for use in gage or differential applications in pneumatic or fuel systems.

