

Piston, Differential Pressure Switch

Description

The D05 series Differential Pressure Switch uses a piston design where small migration of the process media is permissible. It is recommended for high differential and high static pressures, up to 5000 psi (static pressure over 3000psi in stainless steel only). Body case is available in Aluminum, Brass and Stainless Steel, with Buna-N, Viton or EPDM seals.



Specification

Accuracy	±5%
Repeatability	±2% of standard calibration point
Action Point Ranges:	2 psid to 150 psid, Factory set
Maximum Static Pressure	3000 psi (5000 psi for SS)
Dead Band	5-20% full scale
Actuator	Piston
Case Material	Aluminum, Brass, Stainless steel
Maximum Process Temp	230°F/110°C
Minimum Process Temp	-4°F/-20°C
O-Rings/Diaphragm:	Buna-N, Viton, EPDM
Connection Size	Basic model: 1/8" NPT female bottom or side port In-line model: 1/4" or 1/8" NPT male side port
Switches Type	Basic model: 1 SPST, 1 SPDT In-line model: 1 SPST, 1 SPDT, 2 SPST, 2 SPDT

Electrical Rating

	SPST	SPDT
Contact Rating	10 VA ac (rms) or dc (max)	3 VA ac (rms) or dc (max)
Switching Current	0.5 Amp ac (rms) or dc (max)	3 Amp ac (rms) or dc (max)
Switch Voltage	100 Vac/Vdc (max)	30 Vac/Vdc (max)

General Information

Ambient storage temperature	-40..+110°C
Mass	About 200 g.
Package	1 piece /box, 80pcs/carton

Feature

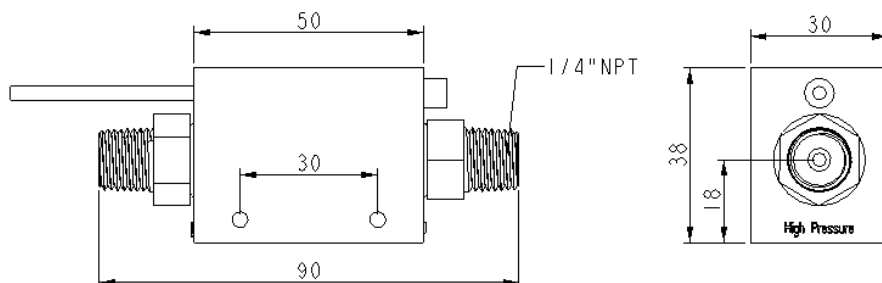
- Piston actuator
- Low cost, best choice for OEM customer
- Suitable for liquid, water and air application
- Aluminum, brass, Stainless steel body case available
- Ranges from 2-150 psid
- Static pressures up to 5000 psi
- Buna-N, Viton or EPDM O-rings
- Standard SPST, SPDT switches available

Application

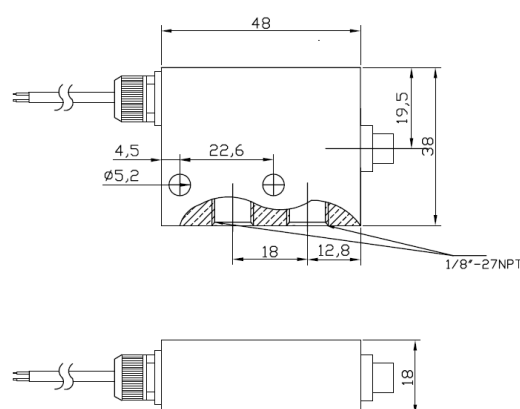
- Power generator
- Construction machine
- Industrial air compressor
- HVAC

Mechanical dimensions in mm:

Basic Model:



In-line Model:



Basic Model:

- Only 1 pressure set-point;
- 1/8"NPT pressure port, could be side or bottom

In-line Model:

- 1 or 2 pressure set-points are available;
- 1/8" NPT or 1/4" NPT side pressure port;

Customized is acceptable.

D series Nomenclature:

D 05

Structure

- 05: Piston
- 09: Diaphragm

A 03 A

Pressure Port

- A: 1/8"NPT female, Side
- B: 1/8"NPT female, Bottom
- C: 1/4"NPT mail, Side

First Set Point

- 01: 0...5 psid
- 02: 0...10 psid
- 03: 0...25 psid
- 04: 0...35 psid
- 05: 0...50 psid
- 06: 0...80 psid
- 07: 0...100 psid
- 08: 0...150 psid
- 09: 0... 15KPa

Case Material

- A: Aluminum
- B: Bronze
- C: Stainless Steel
- D: PVC

01 A G

Customize No.

- G: indicator
- XX: Cable Length

Piston Material

- A: Buna-N
- B: Viton
- C: EPDM

Second Set Point

- 01: 0...5 psid
- 02: 0...10 psid
- 03: 0...25 psid
- 04: 0...35 psid
- 05: 0...50 psid
- 06: 0...80 psid
- 07: 0...100 psid
- 08: 0...150 psid
- 09: 0... 15Kpa



This transducer must be used in electric/ electronic equipment with respect to applicable standards and safety requirements in accordance with the manufacturer's operating instructions.



Caution, risk of electrical shock

When operating the transducer, certain parts of the module can carry hazardous voltage. Ignoring this warning can lead to injury and/or cause serious damage. This transducer is a build-in device, whose conducting parts must be inaccessible after installation. A protective housing or additional shield could be used. Main supply must be able to be disconnected.