

D05 Series Piston, Pressure Switch

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

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

SPDT

3 VA ac (rms) or dc (max) 3 Amp ac (rms) or dc (max) 30 Vac/Vdc (max)

General Information

Ambient storage temperature Mass Package -40..+110°C About 200 g. 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 Orings
- Standard SPST, SPDT switches available

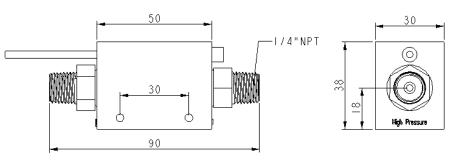
Application

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



Mechanical dimensions in mm:

Basic Model:



D05 Series

Piston, Pressure Switch

Basic Model:

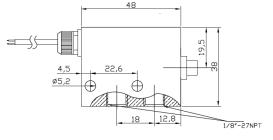
- Only 1 pressure setpoint;
- 1/8"NPT pressure port, could be side or bottom

In-line Model:

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

Customized is acceptable.

In-line Model:





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

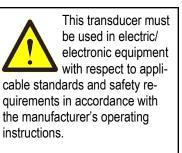
Piston Material

A: Buna-N B: Viton C: EPDM

O. LI DIM

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





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.