**Explosion Proof Diaphragm** 

D1X, D2X Series

- ♦ Hermetically Sealed
- ♦ Explosion Proof Housing
- → Tamper Proof Setpoint
  - Adjustment
- → Ideal for Pressure or Vacuum

Barksdale's D1X and D2X Explosion Proof Diaphragm Pressure Switches offer high accuracy and reliability, providing an ideal solution for your hazardous locations pressure control requirements. With vacuum and positive pressure ranges to 150 psi, NEMA 4,7 & 9 enclosures, a covered terminal

strip and tamper-proof external adjustment, Barksdale D1X and D2X Explosion Proof

**Diaphragm Pressure Switches** meet your needs in a wide variety of applications. These switches are available in single setting or dual control. An internal set screw allows for easy internal adjustment of setpoints. For applications requiring a highly accurate switch in a durable package, **Barksdale's Explosion Proof Diaphragm Pressure Switches** are the ideal choice.

### With Barksdale - Pressure's No Problem

As a recognized leader in the manufacture of pressure product solutions, Barksdale pressure switches meet the demanding needs of our customers. From 29" Hg to 18,000 psi, Barksdale has pressure switches for a variety of applications – from transformers to natural gas compressors to beverage dispensers – and more!

### **Barksdale's Diaphragm Pressure Switches**

provide an economical solution for your pressure sensing needs. Diaphragm switches accurately control pressures from 30 inches of mercury vacuum to 150 psi positive pressure, and can be factory pre-set upon request. Setpoint adjustment is easily accomplished by turning the adjustment screws, which are protected by a tamper-resistant cover on housed models. A variety of available factory options allows the diaphragm switches to be configured to the exact needs of your application.

## Diaphragm Pressure Switch Applications

With its economical design and high repeatability, Barksdale's **Diaphragm Pressure Switches** provide an accurate and reliable solution for pressures up to 150 psi, making them ideal for use in:

- Pump & Compressor Monitoring
- Air proving in HVAC Systems
- Engine Monitoring
- Machine Tools
- Hydraulic Power Units



### **Need Something Special?**

If you have special product requirements, we can help. Barksdale specializes in custom design solutions to meet your needs. Our reputation is built on creating custom products for customers committed to getting exactly what they need. We have design engineers and technical specialists who are experts in solving your unique pressure problems. Our technology and resources are at your disposal.

#### **Need More Information?**

Call us. We are only a phone call away. Toll-Free: 1-800-835-1060.



2

**Electrical Characteristics** 

All models incorporate Underwriters Laboratories, Inc. and CSA Listed single pole double throw snap-action switching elements.

± 0.5% of the adjustable range

SPDT Snap Action; single or dual

**Performance Characteristics** 

Accuracy

Type

Switch

circuit

Rating 10 Amps @ 125/250 VAC; .5 Amps @

24 VDC (Class A or H limit switch). Consult sales drawing for ratings of

optional limit switches.

**Physical** 

Shipping Weight 7.0 lbs. approximate

Wetted Parts

Process Fitting 303 Stainless Steel
Diaphragms 17-7 PH Stainless Steel

Enclosure Die-Cast Aluminum, anodized and

painted

Ratings NEMA 4, 7, 9
Pressure Connection 1/4" NPT Female

Electrical Connection Screw terminals on covered terminal strip via 1/2" NPT (D1X) and 3/4" NPT

(D2X) conduit fittings

**Approvals** 

UL All models are UL approved for use in

hazardous locations Class I, Groups B, C, & D; Class II, Groups E, F, & G. UL

File No. E37043

CSA All models are CSA approved for use in

hazardous locations Class I, Groups B, C, & D; Class II, Groups E, F, & G.

CSA File No. 022354-0-000

ATEX Compliant to EExd IIC T6; EC
Certificate No. LCIE ATEX 6027 X

PED (European) Compliant to PED 97/23/EC

**Environmental** 

Temperature Range

Operating -65° to +165°F (-7° to +74°C) Storage -40° to +200°F (40° to 200°C)

**Adjustment Instructions** 

Pressure Turn adjustment screw

counterclockwise to raise actuation

point.

Vacuum Turn adjustment screw clockwise to

increase setpoint (higher vacuum)

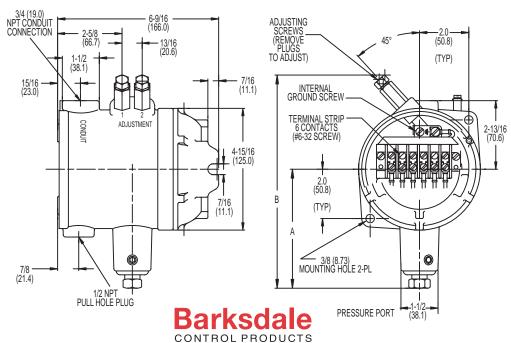
WIRING CODE				
Lead	Circuit #1		Circuit #2	
	Pressure	Vacuum	Pressure	Vacuum
NormallyClosed	Blue	Red	Orange	Yellow
Common	Purple	Purple	Brown	Brown
NormallyOpen	Red	Blue	Yellow	Orange

#### **Contact Factory for These Options**

1/2" NPT female pressure connection Hermetically sealed switch elements

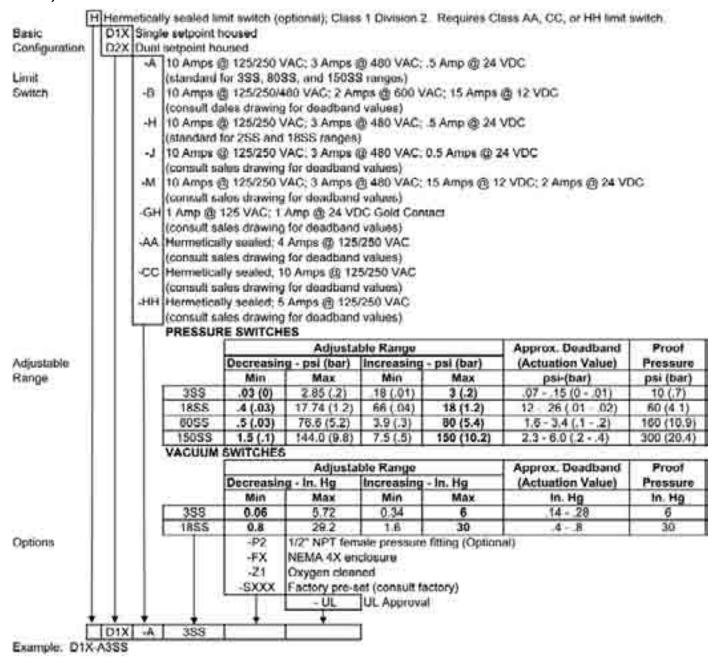
NEMA 4X, 7, 9 enclosure Cleaned for Oxygen Service

Factory pre-set



### **Explosion Proof Diaphragm**

### D1X, D2X Series



Miscellaneous: Paper Tag: \$5.00 Metal Tag: \$10.00

### **Barksdale**

CONTROL PRODUCTS

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