

D1T, D2T Pressure Switch

Single and Dual Terminal Block Diaphragm

D1T, D2T Series



- ✦ High Reliability
- ✦ Ideal for Pressure and Vacuum
- ✦ Dual Switching Capability
- ✦ Tamper-Proof External Adjustment
- ✦ High Accuracy
- ✦ NEMA 4

Barksdale's D1T & D2T Terminal Block Diaphragm Pressure Switches offer superior accuracy in a robust package, making them the ideal solution to your industrial pressure control needs. These switches are ideal for applications requiring water-tight, NEMA 4 housings, a covered terminal strip and tamper-proof external adjustment. (Factory set models are also available.) With pressure ranges up to 150 psi, these housed diaphragm pressure switches are suitable for use in either positive pressure or vacuum applications. Single and dual circuit models are available. Housed models feature a durable, anodized aluminum enclosure. For applications requiring a highly accurate switch in a durable package, **Barksdale's D1T & D2T Terminal Block Diaphragm Pressure Switches** are the ideal choice.

D1T, D2T Pressure Switch

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 D1T & D2T Terminal Block

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 D1T & D2T Terminal Block

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
- Pneumatics



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?

D1T, D2T Pressure Switch

Electrical Characteristics

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

Performance Characteristics

Accuracy ± 0.5% of the adjustable range

Switch Type SPDT Snap Action; single or dual 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 2.0 lbs. approximate

Housed Models

Wetted Parts 304 Stainless Steel

Process Fitting 17-7 PH Stainless Steel

Diaphragm

Enclosure Anodized Aluminum (housed models)

Ratings NEMA 4

Housed Models

Pressure Connection 1/4" NPT Female

Electrical Connection Terminal Block through 1/2" NPT conduit connector

Approvals

UL (optional) All models may be ordered as UL listed. File No. E42816).

CSA (optional) All models may be ordered as CSA listed under Class 3231 02, File LR22355 on request.

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

Environmental

Temperature Range

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

Storage -45° to +200°F (-43° to 93°C)

Adjustment Instructions

Pressure Turn adjustment screw counterclockwise to raise actuation point.

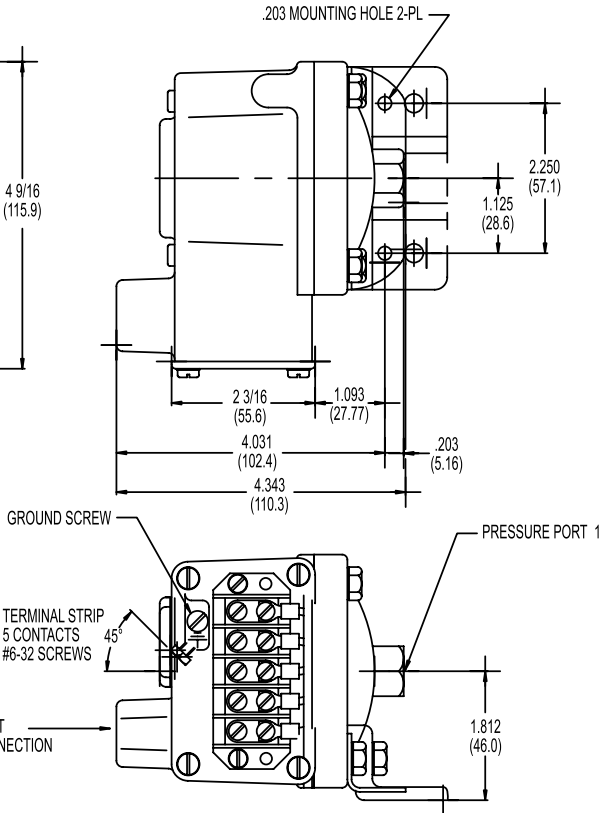
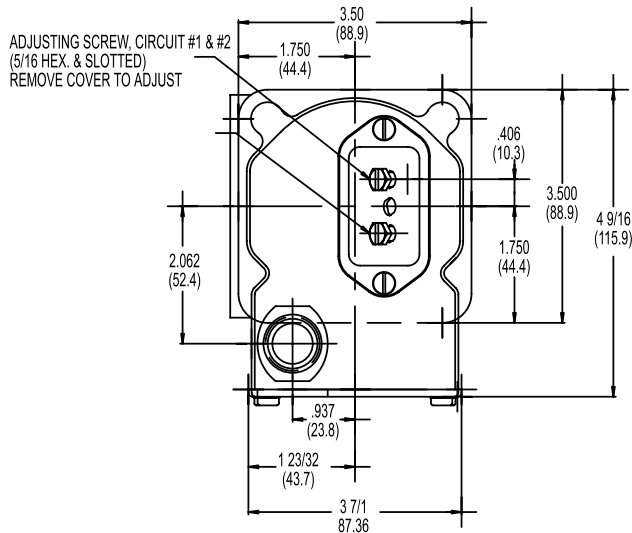
Vacuum Turn adjustment screw clockwise to increase setpoint (higher vacuum)

WIRING CODE

Lead	Circuit #1		Circuit #2	
	Pressure	Vacuum	Pressure	Vacuum
Normally Closed	Blue	Red	Orange	Yellow
Common	Purple	Purple	Brown	Brown
Normally Open	Red	Blue	Yellow	Orange

Contact Factory for These Options

NEMA 4X Enclosure
Cleaned for Oxygen Service
Factory pre-set
Six-pin Terminal Block



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H Hermetically sealed limit switch (optional); Class 1 Division 2. Requires Class AA, CC, or HH limit switch

Basic Configuration

D1T Single setpoint housed with terminal block

D2T Dual setpoint housed with terminal block

Limit Switch

-A 10 Amps @ 125/250 VAC; 3 Amps @ 480 VAC; .5 Amp @ 24 VDC (standard for 3SS, 80SS, and 150SS ranges)

-B 10 Amps @ 125/250/480 VAC; 2 Amps @ 600 VAC; 15 Amps @ 12 VDC (consult sales drawing for deadband values)

-H 10 Amps @ 125/250 VAC; 3 Amps @ 480 VAC; .5 Amp @ 24 VDC (standard for 2SS and 18SS ranges)

-M 10 Amps @ 125/250 VAC; 3 Amps @ 480 VAC; 15 Amps @ 12 VDC; 2 Amps @ 24 VDC (consult sales drawing for deadband values)

-GH 1 Amp @ 125 VAC; 1 Amp @ 24 VDC Gold Contact (consult sales drawing for deadband values)

-AA Hermetically sealed; 4 Amps @ 125/250 VAC (consult sales drawing for deadband values)

-CC Hermetically sealed; 10 Amps @ 125/250 VAC (consult sales drawing for deadband values)

-HH Hermetically sealed; 5 Amps @ 125/250 VAC (consult sales drawing for deadband values)

Adjustable Range

Consult sales drawing for actual adjustable ranges, deadband, and alternate limit switches.

	Adjustable Range	Proof Pressure psi (bar)
Pressure Switches:		
2SS	.02 to 1.7 psi (.001 to .11 bar)	3 (.2)
3SS	.03 to 3 psi (.002 to .2 bar)	10 (.7)
18SS	.4 to 18 psi (.03 to 1.2 bar)	60 (4)
80SS	.5 to 80 psi (.03 to 5.3 bar)	160 (10.7)
150SS	1.5 to 150 psi (.1 to 10 bar)	300 (20)
Vacuum Switches (all values in inches of mercury):		
3SS	.06 to 6 inches of mercury	6
18SS	.8 to 30 inches of mercury	30

Options

-FX NEMA 4X enclosure

-Z1 Oxygen cleaned

-P2 1/2" NPT Female pressure connection

-L6 6 Pin Terminal Block

-UL UL Approved (Hermetically sealed versions only)

-CS CSA Approved - Consult Factory

-SXXX Factory Pre-set - Consult Factory

Example: D1T-A80SS-UL

Miscellaneous:

Paper Tag: \$5.00

Metal Tag: \$10.00