

DPD1T, DPD2T Pressure Switch

Housed Diaphragm Differential
DPD1T, DPD2T Series

- ✦ High Reliability
- ✦ Dual Switching Capability
- ✦ High Accuracy
- ✦ Tamper-Proof External Adjustment
- ✦ NEMA 4



Barksdale's Housed Diaphragm Differential Pressure Switches offer superior accuracy in a robust package, making them an ideal solution to your industrial pressure control needs. These switches are ideal applications requiring water-tight, NEMA 4 housings, a covered terminal strip and tamper-proof external adjustment. (Unit can be factory set upon request.) With pressure ranges up to 150 psi, these housed diaphragm differential pressure switches are suitable for use in either positive pressure or vacuum applications and are available in single-circuit and dual-circuit models. These switches feature a durable, die-cast aluminum enclosure. For applications requiring a highly accurate switch in a durable package, Barksdale's Housed Diaphragm Differential Pressure Switches are the ideal choice.

Barksdale Exceeding Your Expectations Through Our People, Products and Performance

CONTROL PRODUCTS

CRANE Barksdale, Inc./Barksdale GmbH
 A Subsidiary of Crane Co.

DPD1T, DPD2T 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 DPD1T and DPD2T Series 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 DPD1T and DPD2T Series Diaphragm Pressure Switches** provide an accurate and reliable solution for pressures up to 150 psi, making them ideal for use in:

- Pump & Compressor Monitoring
- HVAC Systems
- Engine Monitoring
- Machine Tools
- Hydraulic Power Units
- Filtration Systems



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.

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DPD1T, DPD2T 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 3.5 lbs. approximate

Wetted Parts

Process Fitting 300-Series Stainless Steel

Diaphragm 17-7 PH Stainless Steel

Seals Viton®

Enclosure Die-Cast Aluminum

Ratings NEMA 4

Pressure Connection 1/8" NPT Female

Electrical Connection Screw terminals on covered terminal strip through 1/2" NPT conduit fitting

Approvals

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

UL Approved for use in hazardous locations; Class 1, Div. 2. (Hermetically sealed versions only) UL File E37043

CSA Consult Factory

Environmental

Temperature Range

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

Adjustment Instructions

Pressure Differential Turn adjustment screw clockwise to decrease pressure difference; counterclockwise to increase pressure difference

Vacuum Differential Turn adjustment screw counterclockwise to decrease vacuum difference; clockwise to increase vacuum difference

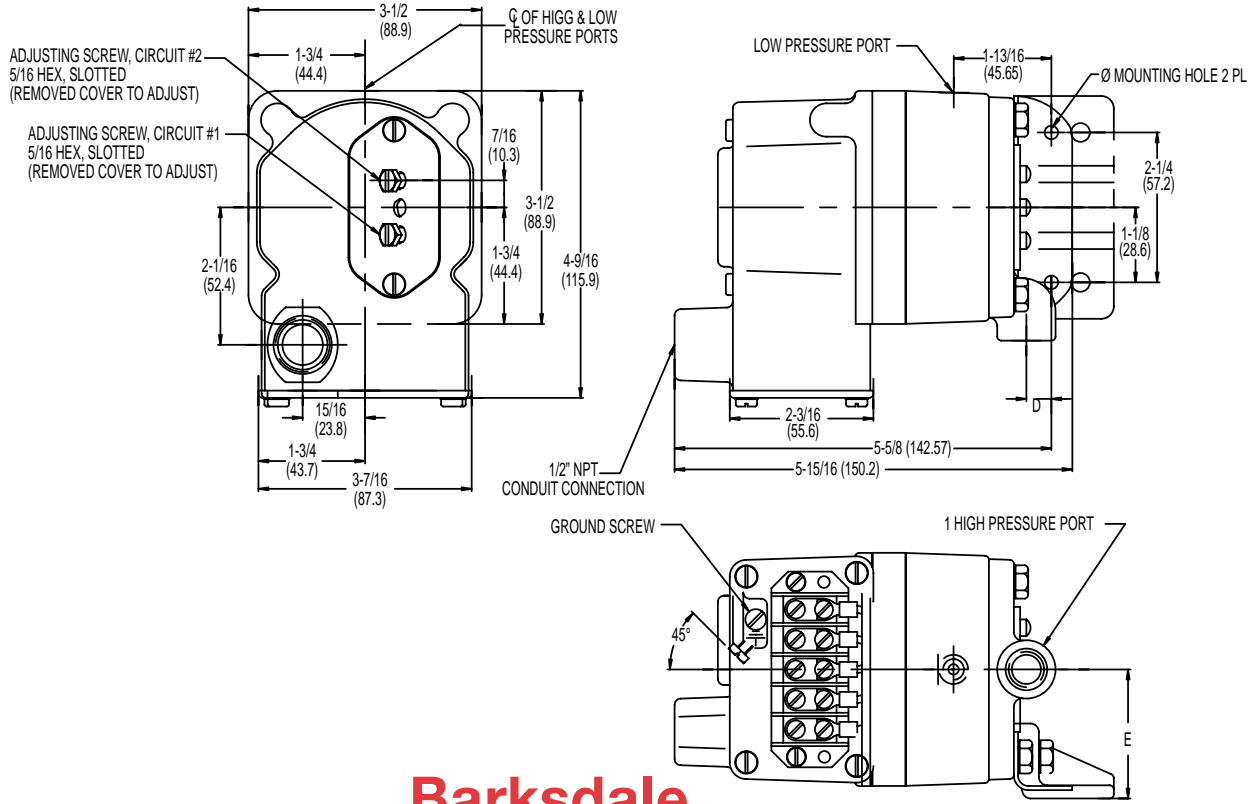
WIRING CODE				
Lead	Circuit #1		Circuit #2	
	Pressure	Vacuum	Pressure	Vacuum
Normally Closed	Blue	Red	Orange	Yellow
Common	Purple	Purple	Brown	Brown
Normally Open	Red	Blue	Yellow	Orange

Contact Factory for These Options

Mounting bracket rotated 180°

Factory pre-set

NEMA 4X Enclosure



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Housed Diaphragm Differential

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

Basic Configuration	DPD1T	Single setpoint housed
	DPD2T	Dual setpoint housed
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

PRESSURE SWITCHES

	Adjustable Range				Approx. Deadband (Actuation Value) psi (bar)	Proof Pressure psi (bar)
	Decreasing - psi (bar)		Increasing - psi (bar)			
	Min	Max	Min	Max		
3SS	.03 (0)	2.76 (.2)	.27 (.02)	3 (.2)	.09 - .24 (.01 - .02)	10 (.7)
18SS	.4 (.03)	17.68 (1.2)	.72 (.05)	18 (1.2)	.18 - .32 (.01 - .02)	60 (4.1)
80SS	.5 (.03)	75.3 (5.1)	5.2 (.4)	80 (5.4)	2.2 - 4.7 (.1 - .3)	160 (10.9)
150SS	1.5 (.1)	141.3 (9.6)	10.2 (.7)	150 (10.2)	3.5 - 8.7 (.2 - .5)	300 (20.4)

VACUUM SWITCHES

	Adjustable Range				Approx. Deadband (Actuation Value) In. Hg	Proof Pressure In. Hg
	Decreasing - In. Hg		Increasing - In. Hg			
	Min	Max	Min	Max		
3SS	0.08	5.72	0.34	6	.17 - .51	20
18SS	0.8	29.2	1.6	30	.44 - 1.00	90

Options

FX	NEMA 4X Enclosure
L6	6 Contact Terminal Block (DPD2T Only)
\$XXX	Factory pre-set (consult factory)

Example: DPD1T-H-3SS

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

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