Diaphragm Differential Switch

Features

- High reliability
- Dual switching capability
- High accuracy
- Tamper-proof external adjustment
- NEMA 4

Applications

- Pump & compressor monitoring
- HVAC systems
- Engine monitoring
- Machine tools
- Hydraulic power units
- Filtration systems
- Metal working
- Utility & power generation



General Specifications*

* See product configurator for additional options.

Wiring Code

Lead

NormallyClosed

Common

NormallyOpen

Electrical Characteristics:	All models incorporate Underwriters Laboratories, Inc. and CSA Listed single pole double throw snap-action switching elements.
Accuracy:	\pm 0.5% of the adjustable range
Switch: Type:	SPDT snap action; single or dual circuit
Rating:	10 amps @ 125/250 VAC; 3 amps @ 480 VAC (Class A or H limit switch). Consult product configurator for ratings of optional limit switches.
Wetted Parts: Diaphragm:	17-7 PH stainless steel
Seals:	Viton®
Enclosure:	Die-cast aluminum anodized
Other Parts:	Nickel plated aluminum 300 series stainless steel
Electrical Connection:	Screw terminals on covered terminal strip through 1/2" NPT conduit fitting
Enclosure Ratings:	NEMA 4
Pressure Connection:	1/8" NPT female high + low

Circuit #1

Vacuum

Red

Purple

Blue

Pressure

Blue

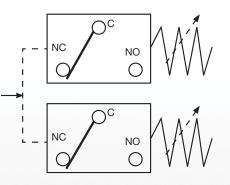
Purple

Red

Approvals/Listings: PED (European):	Compliant to PED 97/23/EC
Temperature Range: Operating:	-65°F to +165°F (-54°C to +74°C)
Adjustment Instructions: Pressure:	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
Options:	-Factory pre-set -NEMA 4X enclosure
Shipping Weight:	Single & dual - approximate 3.50 lbs.

Wiring Diagram

(contact status at atmospheric pressure)



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Circuit #2

Pressure Vacuum

Orange

Brown

Yellow

Yellow

Brown

Orange

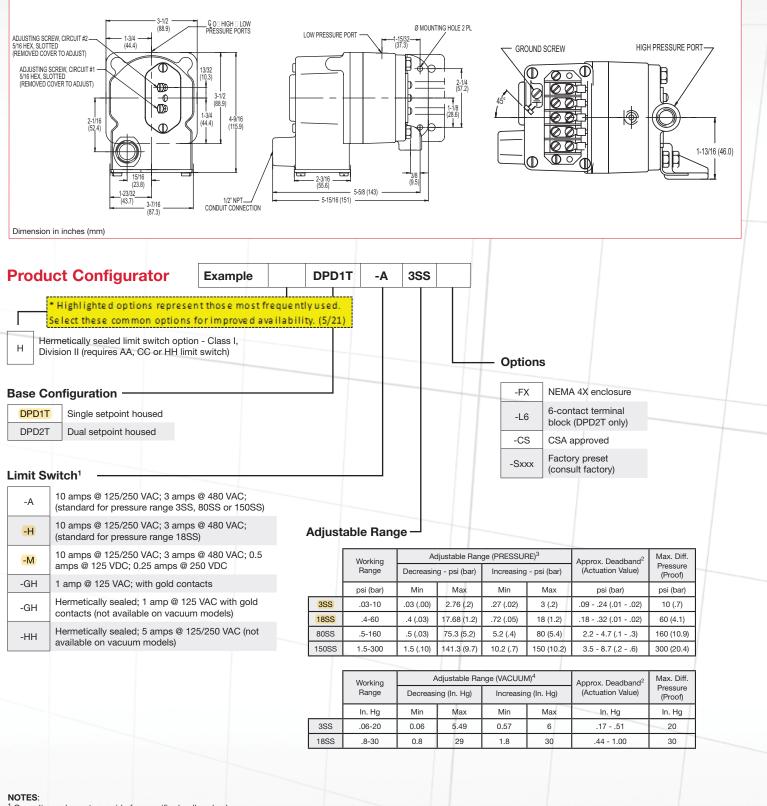
CONTROL PRODUCTS Barksdale, Inc./Barksdale GmbH A Subsidiary of Crane Co.

Series DPD1T, DPD2T

Diaphragm Differential Switch

Series DPD1T, DPD2T

Technical Drawing



¹ Consult supplementary guide for specific deadband values

² Deadband values indicated when used with the "standard" limit switch

³ Working range may be extended to 400 psi provided the maximum differential pressure (proof) is not exceeded ⁴ Working range may be extended to 30 in.Hg provided the maximum differential pressure (proof) is not exceeded

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