

Diaphragm Differential Switch

Series DPD1T, DPD2T

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*

Electrical Characteristics:	All models incorporate Underwriters Laboratories, Inc. and CSA Listed single pole double throw snap-action switching elements.		
Accuracy:	$\pm0.5\%$ 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		

* See produc	t configurator	for additional	options.
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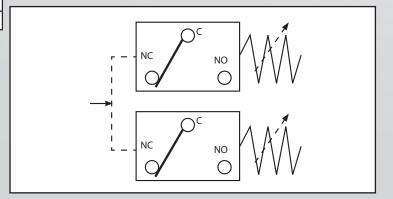
Wiring Code

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

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: Vacuum Differential:	Turn adjustment screw clockwise to decrease pressure difference; counterclockwise to increase pressure difference
vacuum Dinerentiai:	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)

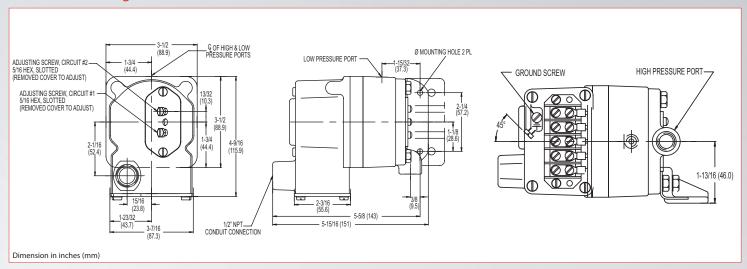


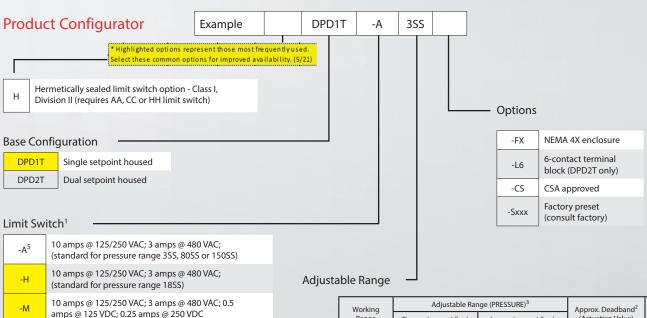


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Technical Drawing





		Working	Adjustable Range (PRESSURE) ³				Approx. Deadband ²	Max. Diff.
		Range	Decreasing - psi (bar)		Increasing - psi (bar)		(Actuation Value)	Pressure (Proof)
		psi (bar)	Min	Max	Min	Max	psi (bar)	psi (bar)
L	3SS	.03-10	.03 (.00)	2.76 (.2)	.27 (.02)	3 (.2)	.0924 (.0102)	10 (.7)
I	1855	.4-60	.4 (.03)	17.68 (1.2)	.72 (.05)	18 (1.2)	.1832 (.0102)	60 (4.1)
	80SS	.5-160	.5 (.03)	75.3 (5.2)	5.2 (.4)	80 (5.4)	2.2 - 4.7 (.13)	160 (10.9)
	150SS	1.5-300	1.5 (.10)	141.3 (9.7)	10.2 (.7)	150 (10.2)	3.5 - 8.7 (.26)	300 (20.4)

	Working Range	Adjustable Range (VACUUM) ⁴				Approx. Deadband ²	Max. Diff.
		Decreasi	ng (In. Hg)	Increasin	g (In. Hg)	(Actuation Value)	Pressure (Proof)
	In. Hg	Min	Max	Min	Max	In. Hg	In. Hg
3SS	.06-20	0.06	5.49	0.57	6	.1751	20
1855	.8-30	0.8	29	1.8	30	.44 - 1.00	30

NOTES:

-GH

-HH

1 amp @ 125 VAC; with gold contacts

available on vacuum models)

Hermetically sealed; 5 amps @ 125/250 VAC (not



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

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

⁵ A limit switch not available with UL/CSA