## Praccura

## Terminal Block Diaphragm Switch

## D1T, D2T Series

#### **Features**

- ► High reliability
- High accuracy
- ▶ NEMA 4
- ▶ Ideal for pressure and vacuum applications
- Single and dual switching capability
- ▶ Tamper-proof external adjustment

## **Applications**

- Machine tools
- Pneumatics
- Medical
- Marine & shipbuilding
- Pump & compressor monitoring
- Oil & gas
- Water equipment
- Mining
- ▶ Lubrication equipment



## **General Specifications\***

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Accuracy:	$\pm0.5\%$ of the adjustable range		
Switch: Type:	Single pole double throw (SPDT) Snap Action; single circuit		
Rating:	10 amps @ 125/250 VAC; 3 amps @ 480 VAC (Class A or H limit switch). Consult sales drawing for ratings of optional limit switches.		
Wetted Parts: Process Fitting:	304 stainless steel		
Diaphragm:	17-7 PH stainless steel		
Enclosure:	Anodized aluminum		
Electrical Connection:	Terminal block through 1/2" NPT conduit connector		
Enclosure Rating:	NEMA 4		
Pressure Connection:	1/4" NPT Female		
Approvals: UL (Optional):	D1T models may be ordered as UL listed on request. D2T models may be ordered as UL Recognized components on request. File No. E42816		
CSA (Optional):	All models may be ordered as CSA listed under Class 3231 02,		

<sup>\*</sup> See product configurator for additional options.

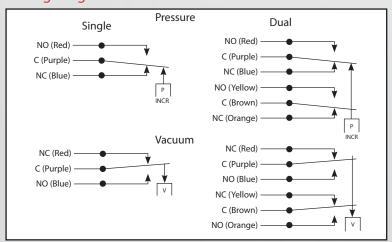
## Wiring Code

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

File LR22355 on request.

Approvals (cont.): PED (European):	Compliant to PED 97/23/EC
Temperature Range: Operating:	-40° to +165°F (-40° to +74°C) Hermetic Div. 2 models: -4° to +140°F (-20° to +60 °C)
Storage:	-65° to +200°F (-54° to +93°C)
Adjustment Instructions: Pressure:	Turn adjustment screw counterclockwise to raise actuation point.
Vacuum:	Turn adjustment screw clockwise to increase setpoint (higher vacuum).
Options:	- NEMA 4X enclosure - Cleaned for oxygen service - Factory pre-set - Six-pin terminal block
Shipping Weight:	2.0 lbs. approximate

## Wiring Diagram

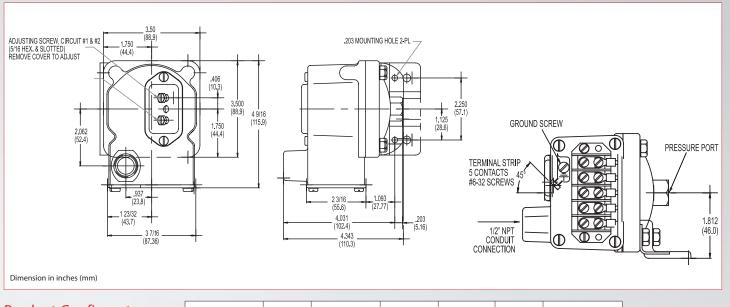




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## **Technical Drawing**



# Product Configurator Example D1T -A 80SS -U Hermetically sealed limit switch option - Class I, Division II (requires AA, CC, GH or HH limit switch) \* Highlighted options represent those most frequently used. Select these common options for improved availability. (5/21) -U UL App

#### **Base Configuration**

D1T Single setpoint housed with terminal block
D2T Dual setpoint housed with terminal block

## Limit Switch<sup>1</sup>

-HH

-A <sup>4</sup>	10 amps @ 125/250 VAC; 3 amps @ 480 VAC; (standard for pressure range 3SS, 80SS or 150SS)
-C	10 amps @ 125/250/480 VAC; 2 amps @ 600 VAC; 0.1 amps @ 125 VDC; 0.05 amps @ 250 VDC
Η-	10 amps @ 125/250 VAC; 3 amps @ 480 VAC; (standard for pressure range 2SS or 18SS)
-M	10 amps @ 125/250 VAC; 3 amps @ 480 VAC; 0.5 amps @ 125 VDC; 0.25 amps @ 250 VDC (not -U or -UL approved)
-GH	1 amp @ 125 VAC; 1 amp @ 24 VDC with gold contacts
-CC	Hermetically sealed; 10 amps @ 125/250 VAC (not

available on 2SS or vacuum models)

available on 2SS or vacuum models)

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

### Adjustable Range

	Adjustable Range (PRESSURE)  Decreasing - psi (bar) Increasing - psi (bar)		Approx. Deadband <sup>2</sup>	Proof		
			Increasing - psi (bar)		(Actuation Value) Press	Pressure
	Min	Max	Min	Max	psi (bar)	psi (bar)
2SS <sup>3</sup>	0.018 (.0)	1.65 (.1)	0.068 (.0)	1.7 (.1)	.0205 (.00)	3 (.2)
3SS	.03 (.00)	2.85 (.2)	.18 (.02)	3 (.2)	.0715 (.001)	10 (.7)
18SS	.4 (.03)	17.74 (1.2)	.66 (.05)	18 (1.2)	.1226 (.0102)	60 (4.1)
80SS	.5 (.03)	76.6 (5.3)	3.9 (.3)	80 (5.5)	1.6 - 3.4 (.12)	160 (10.9)
150SS	1.5 (.1)	144 (9.9)	7.5 (.5)	150 (10.3)	2.3 - 6 (.24)	300 (20.4)

	Adjustable Range (VACUUM)			Approx. Deadband <sup>2</sup>	Proof	
	Decreasing - In. Hg		Increasing - In. Hg		(Actuation Value)	Pressure
	Min	Max	Min	Max	In. Hg	In. Hg
3SS	0.06	5.72	0.34	6	.1428	6
1855	0.8	29.2	1.6	30	.48	30

-U	UL Approved (Industrial Control)
-CS	CSA Approved Model
-Z1 <sup>3</sup>	Oxygen cleaned
-FX	NEMA 4X enclosure
-TC	Temperature stabilization and pre-cycle (non-agency)
-L6	6-Pin Terminal Block (for D2T models only. Non-UL listed)
-Sxxx	Factory pre-set (consult factory)

#### **Pressure Connection**

Blank Std 1/4" NPT female pressure connection

#### NOTES:

<sup>1</sup> Consult Supplemental Guide for specific deadband values

<sup>2</sup> Deadband values indicated when used with the standard "H" limit switch

<sup>3</sup> Not available with hermetically sealed limit switches (no CSA)

<sup>4</sup> A limit switch does not have UL/CSA