# **Electronic Pressure Switch**

#### **Features**

- Ease of setting: teach & go
- Ultra compact construction
- Rotatable 320° housing
- 1 or 2 switchpoints
- Programmable Adjustable hysteresis<sup>1</sup>
- Excellent for high cycling DC applications

### **Applications**

- OEM applications in hydraulic and pneumatic systems
- Press machines
- Lubricant monitoring systems
- Machine tool industry
- Automotive test equipment
- Injection molding machines



### **General Specifications\***

Sensor Element:	Piezoresistive silicon (only for 9000 psi range) or ceramic measuring cell	Thermal Effect:	± 0.2 % f.s./10K
		Compensated Range:	14°F to 158°F (-10 °C to +70 °C)
Materials: Wetted Parts:	Stainless steel, pass., Al2O3	Repeatability:	+/- 1 % f.s.
Electonics Housing: Seals:	PA 6.6 Viton® (FKM)	<b>Temperature Range:</b> Media: Ambient: Storage:	-13°F to 212°F (-25 °C to +100 °C)
Operating Elements:	2 easy response push buttons		-13°F to 176°F (-25 °C to +80 °C) -22°F to 176°F (-30 °C to +80 °C)
Enclosure Rating:	IP65 (indoor only)	Power Supply:	15 to 32 V DC, reversed polarity
Process Connection			protected (SELV, PELV)
(male):	¼" NPT, G1/4, 7/16-20 (37° JIC), 7/16-20 UNF (SAE)	Transistor Switching Outputs PNP: Adjustment Range for Switching Point & Hysteresis <sup>1</sup> : Frequency Response: Current Rating:	
Dimensions:	Approx. Ø 1.0" x 3.9" (without mating connector)		0 % to 100 % f.s.
Measuring Ranges:	0 to 9000 PSI (0 to 600 bar)		Max. 100 Hz Max. 200 mA
Proof Pressure:	1.5 times rated pressure	Vibration:	10 g/20 to 2000 Hz
Electrical Connection:	M12x1, 4-pin	Shock:	100 g/11 ms

\* See Product Configurator for additional options.

Note 1: For 1SP version, adjustable hysteresis (2SP version has built-in 15% hysteresis)



## **Electronic Pressure Switch**

# UDS1V2

### **Technical Drawing**

G

Ρ

Е

G1/4 male (gasket seal)

7/16-20 37° JIC male with o-ring seal

7/16-20 UNF SAE 4 male with o-ring seal





Example: 13000H2000F is one (1) switch point with 3000 psi rising (increase) and 2000 psi talling (decrease) 23000H1000R is two (2) switch points with first switch set at 3000 psi rising and second

switch set at 1000 psi rising.

Single and dual switch can be set at 1xxxxR(or F)yyyyF(or R) and 2xxxxR(or F)yyyyR(or F), where F denotes falling and R denotes rising.

Barksdale

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