

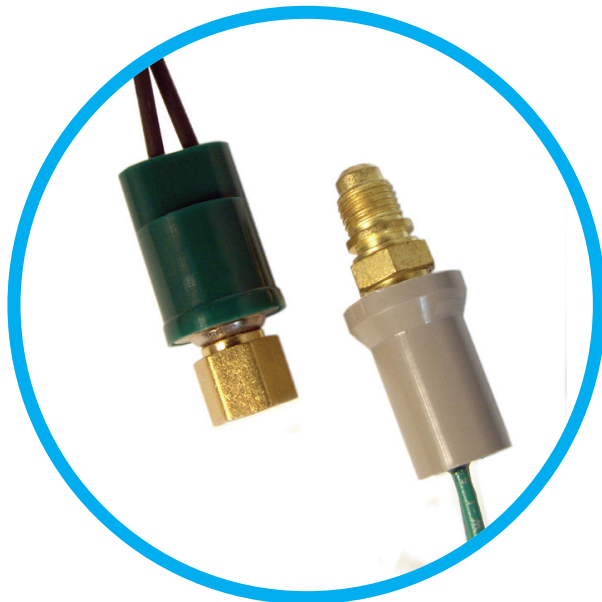


## 20PS, 39PS, 40PS AND 41PS PRESSURE SWITCHES

### Introduction

The 20PS Family of Switch products (20PS, 39PS, 40PS and 41PS) was developed to meet the demanding needs of HVAC & industrial applications and has since become a staple in the heavy vehicle and off road markets. The reliable and durable construction allows the product to perform under severe environmental conditions and very high vibration levels.

Sensata Technologies has been a leading global supplier of pressure sensors & switches for over 50 years.



### Features and Benefits

- Automatic Reset
- Single-pole, single throw switch normally open or normally closed
- Factory calibrated set points g vacuum to 750 psig
- Snap acting Klixon® stainless steel, hermetically sealed sensor
- Environmentally sealed or vented switch
- High cycle life - Proven reliability
- Custom engineered solutions

### Applications

- Compressors & Pumps
- Hydraulics & Pneumatics
- Engine Controls
- Air Conditioning & Refrigeration
- Construction Equipment
- Agricultural Equipment
- Process Control / Laboratory
- Military

## TECHNICAL SPECIFICATIONS

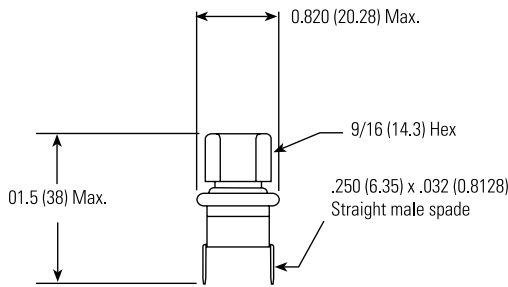
<b>Operating Pressure</b>	Vacuum to 750 psig (52 bar)	
<b>Proof Pressure</b>	<b>Set Point</b>	<b>Proof Pressure</b>
	<100psig 100-500psig >500psig	250psig (17 Bar) 600psig (41 bar) 800psig (55 bar)
	Higher pressures available for certain applications. Contact Sensata.	
<b>Burst Pressure</b>	5000 psig	
<b>Life at Rated Current</b>	100,000 cycles (All - UL Recognition) 250,000 cycles (All except 20PS)	
<b>Electrical Ratings</b>	120 VAC - 5.8 FLA 34.8 LRA 240 VAC - 2.9 FLA 15.0 LRA 120/277 VAC - 375 VA Pilot Duty 24 VAC - 125 VA Pilot Duty	

<b>Dielectric Strength</b>	750 Vrms Open Contacts 1550 Vrms Terminals to Fitting
<b>Lead Wire Material / Electrical Connection</b>	18 or 16 AWG 600V 105°C PVC Quick Connects .250" x .032" Male Str. Tab Various AMP, Packard, Delphi & Deutsch Connectors
<b>Ambient Temperature</b>	-20°F to 176°F / (-29°C to 80°C) (20PS) -40°F to 248°F / (-40°C to 120°C) (40/41PS)
<b>Fluid Temperature</b>	-65°F to 275°F / (-53.9°C to 135°C)

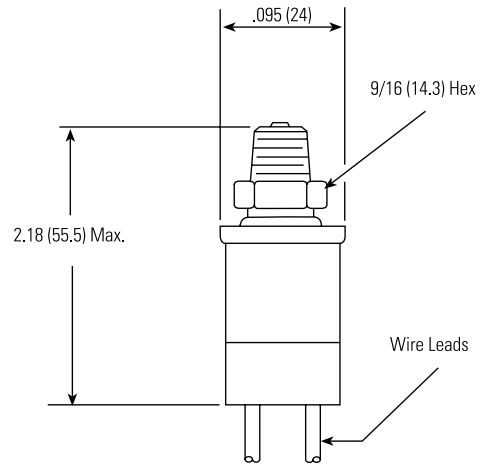
**DIMENSIONS**  
Dimensions in mm [Inch]

Typical Physical Characteristics - 20PS, 39PS, 40PS, 41PS

**Quick Connect Construction**



**Leaded Construction**



Typical Standard Fittings - (Other port fittings are available. Contact Sensata.)

<p><b>1/4" Male Pipe Thread</b></p>	<p><b>1/8" Male Pipe Thread</b></p>	<p><b>1/4" Female Flare with Deflator</b></p>
<p><b>Capillary Tube Fitting (3 Configurations)</b></p>	<p><b>Tube Fitting (4 Configurations)</b></p>	<p><b>Female O-Ring</b></p>

## ● AGENCY APPROVALS AND CERTIFICATIONS



<b>UL</b>	File SA995 Guide SDFY2
<b>UL (Canada)</b>	File SA995 Guide SDFY8
<b>PED EN 12263</b>	Module B&D
<b>ENEC, EN60730</b>	EN60730-1, EN60730-2-6



RoHS Compliancy Available

## ● WARNINGS



### HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

**Failure to follow these instructions will result in death or serious injury**

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