



# Klixon | 20PS, 39PS, 40PS and 41PS PRESSURE SWITCHES

## WORLD CLASS PERFORMANCE

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 of multiple mobile application segments. 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 and switches for over 50 years.

### Features & 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

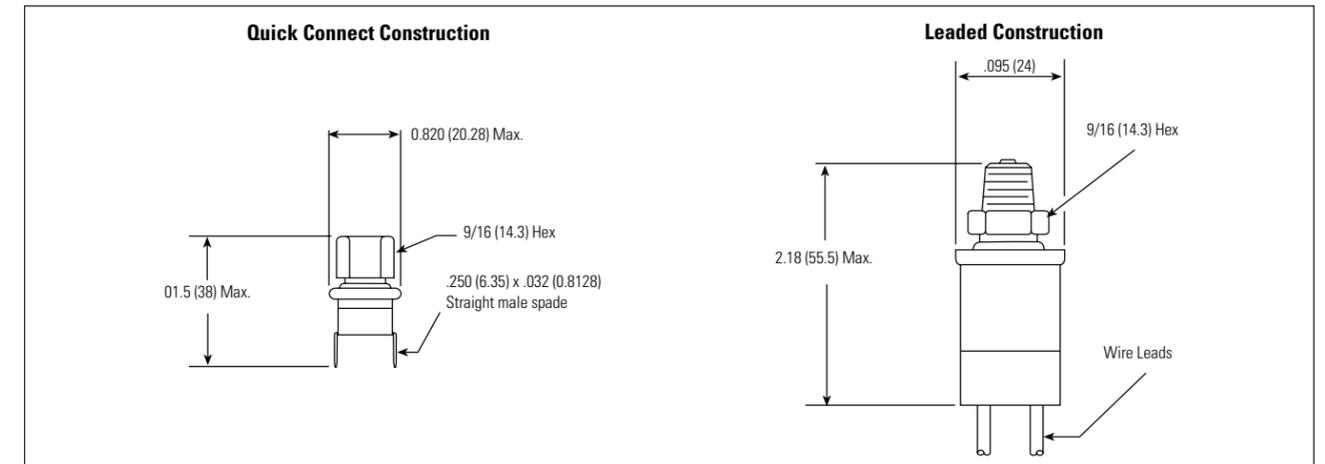
- Compressors & Pumps
- Hydraulics & Pneumatics
- Engine Controls
- Air Conditioning & Refrigeration
- Construction Equipment
- Agricultural Equipment
- Process Control / Laboratory
- Military

### Technical Specifications

| <p><b>Operating Pressure</b><br/>Vacuum to 750 psig (52 bar)</p> <p><b>Proof Pressure</b></p> <table border="1"> <tr> <th>Set Point</th> <th>Proof Pressure</th> </tr> <tr> <td>&lt;100psig</td> <td>250psig (17 Bar)</td> </tr> <tr> <td>100-500psig</td> <td>600psig (41 bar)</td> </tr> <tr> <td>&gt;500psig</td> <td>800psig (55 bar)</td> </tr> </table> <p>Higher pressures available for certain applications. Contact Sensata.</p> <p><b>Burst Pressure</b><br/>5000 psig</p> <p><b>Life at Rated Current</b><br/>100,000 cycles (All - UL Recognition)<br/>250,000 cycles (All except 20PS)</p> <p><b>Electrical Ratings</b><br/>120 VAC - 5.8 FLA 34.8 LRA<br/>240 VAC - 2.9 FLA 15.0 LRA<br/>120/277 VAC - 375 VA Pilot Duty<br/>24 VAC - 125 VA Pilot Duty</p> | Set Point        | Proof Pressure | <100psig | 250psig (17 Bar) | 100-500psig | 600psig (41 bar) | >500psig | 800psig (55 bar) | <p><b>Dielectric Strength</b><br/>750 Vrms Open Contacts<br/>1550 Vrms Terminals to Fitting</p> <p><b>Lead Wire Material / Electrical Connection</b><br/>18 or 16 AWG 600V 105°C PVC<br/>Quick Connects .250" x .032" Male Str. Tab<br/>Various AMP, Packard, Delphi &amp; Deutsch Connectors</p> <p><b>Ambient Temperature</b><br/>-20°F to 176°F / (-29°C to 80°C) (20PS)<br/>-40°F to 248°F / (-40°C to 120°C) (40/41PS)</p> <p><b>Fluid Temperature</b><br/>-65°F to 275°F / (-53.9°C to 135°C)</p> <p><b>Agency Recognitions</b><br/>UL File SA995 Guide SDFY2<br/>UL (Canada) File SA995 Guide SDFY8<br/>PED EN 12263 Module B&amp;D<br/>ENEC, EN60730 EN60730-1, EN60730-2-6<br/>RoHS Compliancy Available</p> |
|--|------------------|----------------|----------|------------------|-------------|------------------|----------|------------------|---|
| Set Point  | Proof Pressure   |                |          |                  |             |                  |          |                  |   |
| <100psig   | 250psig (17 Bar) |                |          |                  |             |                  |          |                  |   |
| 100-500psig  | 600psig (41 bar) |                |          |                  |             |                  |          |                  |   |
| >500psig   | 800psig (55 bar) |                |          |                  |             |                  |          |                  |   |

The World Depends on Sensors and Controls

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



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

