# Sensata
## Technologies

# 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 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 & 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

### Operating Pressure

Vacuum to 750 psig (52 bar)

### Proof Pressure

| Set Point | Proof Pressure |
|-----------|----------------|
| <100psig | 250psig (17 Bar) |
| 100-500psig | 600psig (41 bar) |
| >500psig | 800psig (55 bar) |

Higher pressures available for certain applications. Contact Sensata.

### Burst Pressure

5000 psig

### Life at Rated Current

100,000 cycles (All - UL Recognition)
250,000 cycles (All except 20PS)

### Electrical Ratings

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

### Dielectric Strength

750 Vrms Open Contacts
1550 Vrms Terminals to Fitting

### Lead Wire Material / Electrical Connection

18 or 16 AWG 600V 105°C PVC
Quick Connects .250" x .032" Male Str. Tab
Various AMP, Packard, Delphi & Deutsch Connectors

### Ambient Temperature

-20°F to 176°F / (-29°C to 80°C) (20PS)
-40°F to 248°F / (-40°C to 120°C) (40/41PS)

### Fluid Temperature

-65°F to 275°F / (-53.9°C to 135°C)

### Agency Recognitions

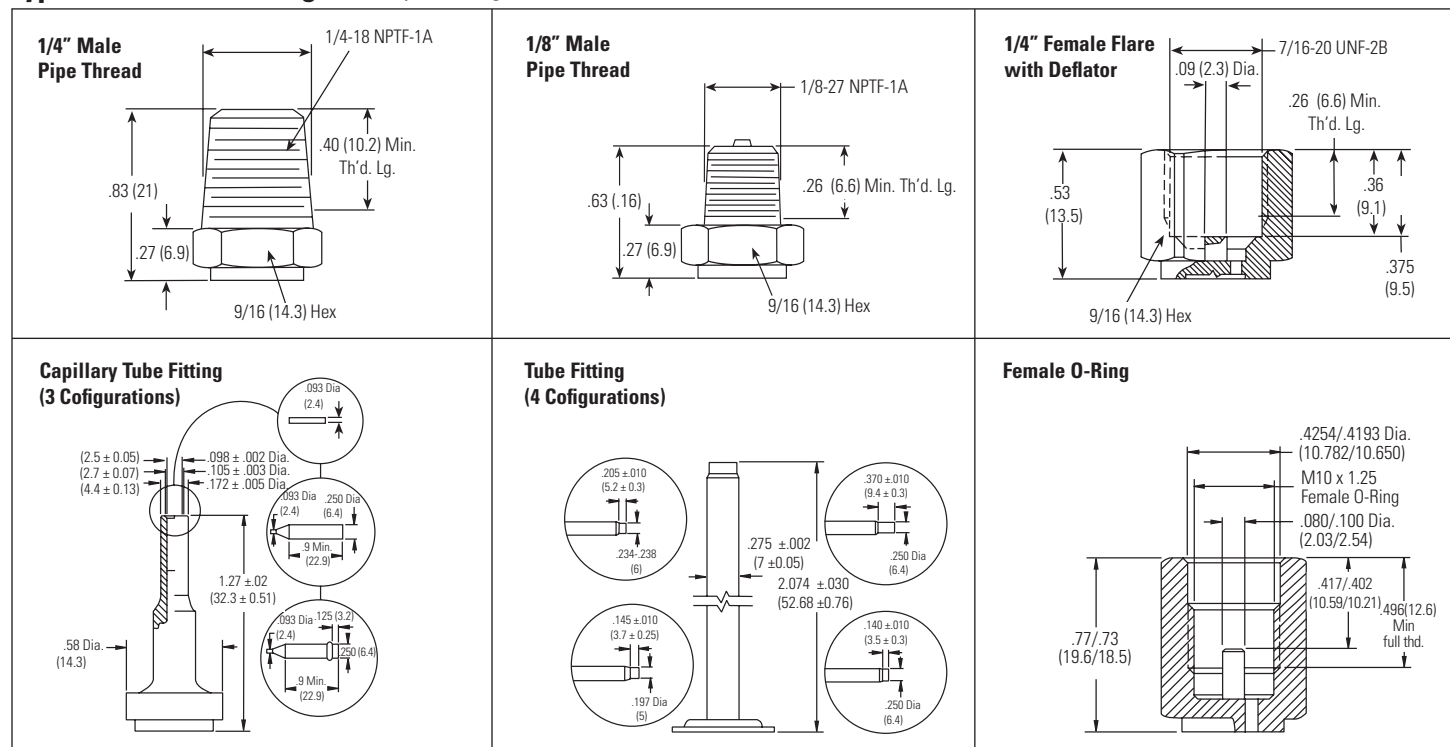| UL | File SA995 Guide SDFY2 |
|----|------------------------|
| UL (Canada) | File SA995 Guide SDFY8 |
| PED EN 12263 | Module B&D |
| ENEC, EN60730 | EN60730-1, EN60730-2-6 |

RoHS Compliancy Available

**The World Depends on Sensors and Controls**

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# Pressure Switches

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

**Quick Connect Construction**

0.820 (20.28) Max.

9/16 (14.3) Hex

01.5 (38) Max.

.250 (6.35) x .032 (0.8128)
Straight male spade

**Leaded Construction**

.095 (24)

9/16 (14.3) Hex

2.18 (55.5) Max.

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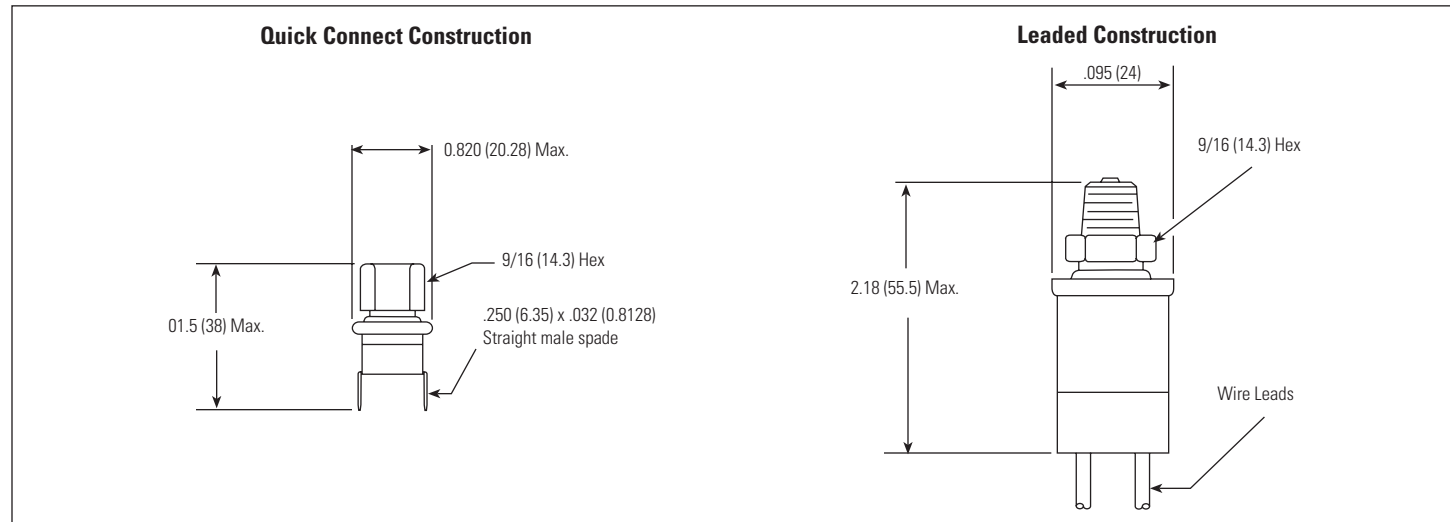
## Typical Standard Fittings (Other port fittings are available. Contact Sensata.)

**1/4" Male Pipe Thread**

1/4-18 NPTF-1A

.40 (10.2) Min. Th'd. Lg.

.83 (21)

.27 (6.9)

9/16 (14.3) Hex

**1/8" Male Pipe Thread**

1/8-27 NPTF-1A

.26 (6.6) Min. Th'd. Lg.

.63 (.16)

.27 (6.9)

9/16 (14.3) Hex

**1/4" Female Flare with Deflator**

7/16-20 UNF-2B

.09 (2.3) Dia.

.26 (6.6) Min. Th'd. Lg.

.53 (13.5)

.36 (9.1)

.375 (9.5)

9/16 (14.3) Hex

**Capillary Tube Fitting (3 Cofigurations)**

.093 Dia (2.4)

(2.5 ± 0.05) (2.7 ± 0.07) (4.4 ± 0.13)

.098 ± .002 Dia.
.105 ± .003 Dia.
.172 ± .005 Dia.

.093 Dia (2.4)    .250 Dia (6.4)

.9 Min. (22.9)

1.27 ±.02 (32.3 ± 0.51)

.093 Dia (2.4)   .125 (3.2)   .250 (6.4)

.9 Min. (22.9)

.58 Dia. (14.3)

**Tube Fitting (4 Cofigurations)**

.205 ±.010 (5.2 ± 0.3)

.234-.238 (6)

.275 ±.002 (7 ±0.05)

2.074 ±.030 (52.68 ±0.76)

.370 ±.010 (9.4 ± 0.3)

.250 Dia (6.4)

.145 ±.010 (3.7 ± 0.25)

.140 ±.010 (3.5 ± 0.3)

.197 Dia (5)

.250 Dia (6.4)

**Female O-Ring**

.4254/.4193 Dia. (10.782/10.650)

M10 x 1.25 Female O-Ring

.080/.100 Dia. (2.03/2.54)

.417/.402 (10.59/10.21)

.496(12.6) Min full thd.

.77/.73 (19.6/18.5)

## Sensata Technologies

**The World Depends on Sensors and Controls**

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Authorized Distributor


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