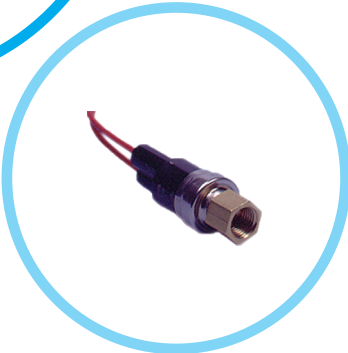


# PS80

## AUTOMATIC RESET PRESSURE SWITCHES

**Introduction**  
 Safe and reliable automatic reset pressure switch designed to fit to meet a broad spectrum of applications including HVAC/R equipment such as heat pumps, compressors, and pumps by offering a wide range of pressure settings, port fittings and electrical connections. Its robust non-electric construction safely operates under high pressure conditions helping keep maintenance costs and return rates low.



- Features and Benefits**
- Custom Engineered Solutions
  - Hermetically Sealed Sensor
  - Environmentally Sealed Leads
  - IP67
  - ATEX-Certified versions available
  - Flexible Set Point Range
  - Fixed Set Points
  - Single Pole, Single Throw
  - Normally Open/Normally Closed
  - Historically Proven Reliability
- Applications**
- HVAC/R (Heat pumps, refrigeration, etc.)
  - Engine Oil
  - Compressors & Pumps
  - Process Controls
  - Automation
  - Agricultural & Construction Equipment
  - Vehicle Controls

### TECHNICAL SPECIFICATIONS

|                         |                                                                                                                                                            |                                                                                   |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Operating Pressure      | 0 to 750 psig (50 bar)                                                                                                                                     |                                                                                   |
| Proof Pressure**        | <b>Set Point</b><br><100psig<br>100-500psig<br>>500psig                                                                                                    | <b>Proof Pressure</b><br>250psig (17 Bar)<br>600psig (41 bar)<br>800psig (55 bar) |
| Burst Pressure          | 5000 psig (345 bar)                                                                                                                                        |                                                                                   |
| Life at Rated Current   | 100,000 cycles                                                                                                                                             |                                                                                   |
| Compatible Refrigerants | R410a, R22, R134a, R407c CO2 (R333a), Ammonia (R717), Propane (R290) and A2L (R32, R454A, R454B, R454C).<br>Please reach out for other refrigerant options |                                                                                   |
| Electrical Ratings      | 120/240 Vac - 6.0 FLA 36 LRA<br>120/277 Vac -375 VA Pilot Duty<br>24Vac - 125 VA Pilot Duty                                                                |                                                                                   |
| Dielectric Strength     | 750 Vrms Open Contacts<br>1550 Vrms Terminals to Fitting (Ground)                                                                                          |                                                                                   |

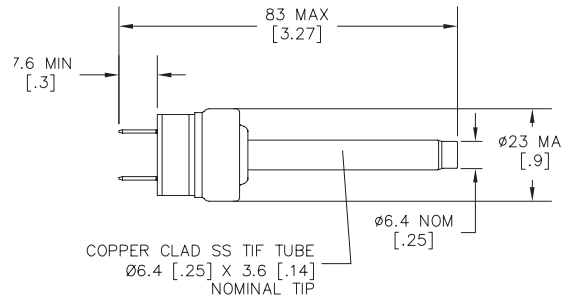
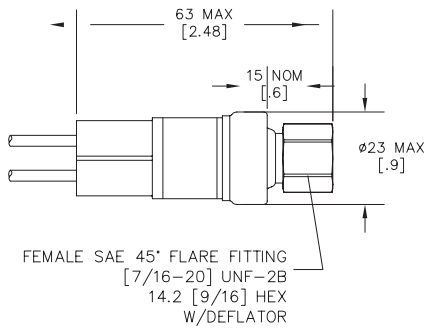
|                                        |                                                                      |
|----------------------------------------|----------------------------------------------------------------------|
| <b>Electrical Connection</b>           | Wire Lead<br>Quick Connect<br>Contact Factory for additional options |
| <b>Ambient Temperature (UL Rating)</b> | -20°F to 176°F / (-29°C to 80°C)                                     |
| <b>Fluid Temperature (UL Rating)</b>   | -65°F to 275°F (-54°C to 135°C)                                      |

\*\* The highest pressure a switch can be exposed to without influencing the set-point.  
Note: Leaded devices can be exposed to moisture not for use while immersed.



## DIMENSIONS

All dimensions in millimeters [inches].  
(Additional configurations are available. Contact Sensata.)



NOTE: Other port fittings available. contact Marketing



## ORDERING OPTIONS

Example : PS80 - K1 - F00305

**Series Name** PS80 - KC - Fftpp

### Connections / Configurations

**K1** = Normally Closed, Leaded  
**K2** = Normally Open, Leaded  
**K3** = Normally Closed, Quick Connect  
**K4** = Normally Open, Quick Connect

### Fitting / Termination / Pressure Range

**F** = Disk Type

**Blank** = Welded Disk

**F** = Free Disk

**f** = Fitting (Pressure Connection)

**0** = 7/16-20 UNF-2B (Female Flare w/ deflator)

**1** = 1/8 - 27 NPTF

**3** = Copper Clad SS TIF Tube

Contact factory for other options

**t** = Termination (Electrical Connection)

**0** = Quick Connect

**2** = 18" wire leads

**7** = 48" wire leads

Contact factory for other options

**pp** = Pressure Range (two digits)

20 psi actuation / 5 psi release up to

750 psi actuation / 50 psi release

Contact factory for other options

## Standard Configurations

| Item Number   | Configuration | Fitting        | Termination | Pressure Setting |           |       |
|---------------|---------------|----------------|-------------|------------------|-----------|-------|
|               |               |                |             | Release          | Actuation | Units |
| PS80-K1-0336  | NC, Leaded    | 7/16-20 UNF-2B | 18" Leads   | 150 rel          | 250 act   | psig  |
| PS80-K1-0341  | NC, Leaded    | 7/16-20 UNF-2B | 18" Leads   | 200 rel          | 300 act   | psig  |
| PS80-K1-0348  | NC, Leaded    | 7/16-20 UNF-2B | 18" Leads   | 250 rel          | 350 act   | psig  |
| PS80-K1-0359  | NC, Leaded    | 7/16-20 UNF-2B | 18" Leads   | 300 rel          | 400 act   | psig  |
| PS80-K1-0759  | NC, Leaded    | 7/16-20 UNF-2B | 48" Leads   | 300 rel          | 400 act   | psig  |
| PS80-K1-0764  | NC, Leaded    | 7/16-20 UNF-2B | 48" Leads   | 350 rel          | 450 act   | psig  |
| PS80-K2-F0305 | NO, Leaded    | 7/16-20 UNF-2B | 18" Leads   | 5 rel            | 20 act    | psig  |
| PS80-K2-F0307 | NO, Leaded    | 7/16-20 UNF-2B | 18" Leads   | 10 rel           | 25 act    | psig  |
| PS80-K2-F0316 | NO, Leaded    | 7/16-20 UNF-2B | 18" Leads   | 25 rel           | 50 act    | psig  |
| PS80-K2-F0718 | NO, Leaded    | 7/16-20 UNF-2B | 48" Leads   | 36 rel           | 55 act    | psig  |



## 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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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

## CONTACT US

### Americas

+1 (800) 350 2727

[sensors@sensata.com](mailto:sensors@sensata.com)

[switches@sensata.com](mailto:switches@sensata.com)

### Europe, Middle East & Africa

+359 (2) 809 1826

[pressure-info.eu@sensata.com](mailto:pressure-info.eu@sensata.com)

### Asia Pacific

[sales.isasia@list.sensata.com](mailto:sales.isasia@list.sensata.com)

China +86 (21) 2306 1500

Japan +81 (45) 277 7117

Korea +82 (31) 601 2004

India +91 (80) 67920890

Rest of Asia +886 (2) 27602006

ext 2808