# **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> <100psig 100-500psig >500psig	Proof Pressure 250psig (17 Bar) 600psig (41 bar) 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). R454C). Please reach out for other refrigerant options		
Electrical Ratings	120/240 Vac - 6.0 FLA 36 LRA 120/277 Vac -375 VA Pilot Duty 24Vac - 125 VA Pilot Duty		
Dielectric Strength	750 Vrms Open Contacts 1550 Vrms Terminals to Fitting (Ground)		



Sensata

**Technologies** 

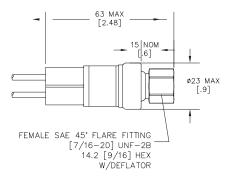
Electrical Connection	Wire Lead Quick Connect Contact Factory for additional options
Ambient Temperature (UL Rating)	-20°F to 176°F / (-29°C to 80°C)
Fluid Temperature (UL Rating)	-65°F to 275°F (-54°C to 135°C)

\*\* 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.

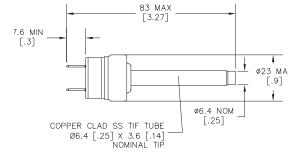
### DIMENSIONS

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



NOTE: Other port fittings available. contact Marketing



				Example : PS80 - K1 - F00305
Series Name	PS80 - K	(C _	Fftpp	
Connections / Configurations				
<ul> <li>K1 = Normally Closed, Leaded</li> <li>K2 = Normally Open, Leaded</li> <li>K3 = Normally Closed, Quick Connect</li> <li>K4 = Normally Open, Quick Connect</li> </ul>				
Fitting / Termination / Pressure Range				
F = Disk Type Blank = Welded Disk F = Free Disk				
<ul> <li>f = Fitting (Pressure Connection)</li> <li>0 = 7/16-20 UNF-2B (Female Flare w/ deflator)</li> <li>1 = 1/8 - 27 NPTF</li> <li>3 = Copper Clad SS TIF Tube Contact factory for other options</li> </ul>				
<ul> <li>t = Termination (Electrical Connection)</li> <li>0 = Quick Connect</li> <li>2 = 18" wire leads</li> <li>7 = 48" wire leads</li> <li>Contact factory for other options</li> </ul>				
<b>pp =</b> Pressure Range (two digits) 20 psi actuation / 5 psi release up to 750 psi actuation / 50 psi release <i>Contact factory for other options</i>				

#### **Standard Configurations**

Item Number	Configuration	Fitting	Termination	Pressure Setting		
item number	Conniguration	гшиу	Termination	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

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**



### 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 switches@sensata.com Europe, Middle East & Africa +359 (2) 809 1826 pressure-info.eu@sensata.com Asia Pacific 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