PS80

AUTOMATIC RESET PRESSURE SWITCHES

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

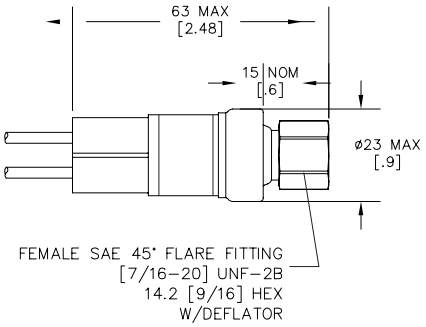
Operating Pressure	0 to 750 psig (50 bar)
Proof Pressure**	**Set Point** / **Proof Pressure** <100psig / 250psig (17 Bar) 100-500psig / 600psig (41 bar) >500psig / 800psig (55 bar)
Burst Pressure	5000 psig (345 bar)
Life at Rated Current	100,000 cycles
Compatible Refrigerants	R410a, R22, R134a, R407c CO2 (R333a), Propane (R290) and A2L (R32, R454A, R454B, 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)
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.

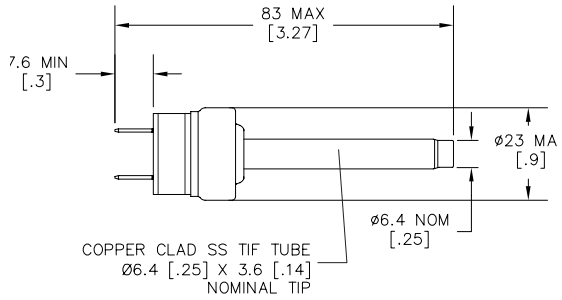
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DIMENSIONS

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



NOTE: Other port fittings available. contact Marketing



ORDERING OPTIONS

Example : PS80 - K1 - F00305

PS80 – **KC** – **Fftpp**

Series Name

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

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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

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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