

PS98 - Solid-State Pressure Switch

- 0 to 6000 psi and 0 to 400 bar
- No Moving Parts—Highly Resistant to Shock and Vibration
- Ideal for Off-Highway, Mobile, Demanding Applications
- Long Cycle Life

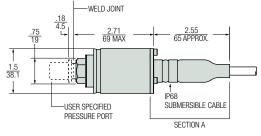
Answering the demand for solid-state switches, Gems proudly offers the PS98. Built from our proven CVD and ASIC design, the PS98 Solid-State pressure switch offers greater accuracy in rough environments. This switch is an ideal alternative to electromechanical types when cycles exceed 50 cycles/minute and broad frequency response is needed. In addition to a modular design, a host of pressure ports and electrical connections are available. Switch and switch-back points are factory set per customer specification.

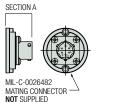
Specifications:

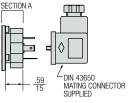
Operating Temperature	-40°F to +260°F (-40°C to +127°C)
Switch	Relay or Transistor
Repeatability*	.25% of Full Set point range @ 70°F (20°C)
Fatigue Life	Designed for more than 100 million FS cycles
Wetted Parts	
Diaphragm	17-4PH Stainless Steel
Fitting	316 Stainless Steel
Electrical Termination	DIN "G" IP65
	10-6 MIL CONN "C" IP65
	Submersible Cable "M" IP68
Supply Voltage (Vs)	24-72 VDC
Vibration	70g, peak to peak sinusoidal, 5 to 2000 Hz
	(Random Vibration: 20 to 2000 Hz @ approx. 20g
	Peak per MIL-STD-810E Method 514.4)
Acceleration	100g steady acceleration in any direction 0.032% FS/g for
	1 bar (15 psi) range decreasing logarithmically to 0.0007%
	FS/g for 400 bar (6000 psi) range.
Shock	20g, 11 ms, per MIL-STD-810E
	Method 516.4 Procedure 1
Proof Pressure	2X Full Scale
Approvals	CE (limits switch voltage to 42 VDC)
Weight, Approximate	1.0 lbs. (0.45 kg)



Dimensions



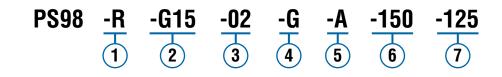




* Repeatability and set point of units may change due to the effects of temperature.

How To Order

Use the **Bold** characters from the chart below to construct a product code. Please reference Notes.



1 Output

-**R**=Relay -**T**=Transistor

2 Pressure Range

Insert Pressure Range Code from Tables 1, below.

3 Pressure Port

- -08 = 1/8"-27 NPT External -02 = 1/4"-18 NPT External -0J = 1/4" NPT External w/snubber -0E = 1/4" NPT Internal -0H = 1/2"-14 NPT External -04 = 7/16"-20 External (SAE #4, J514) -1P = 9/16"-18 External (SAE #6, J1926-2) -1J = 7/16"-20 External (SAE #4, J1926-2) -09 = G1/8" Internal -01 = G1/4" External -0A = R1/4" External
- Tables 1 Pressure Range Codes

PSI Measurement

Pressure Range Code	Pressure Range (psi)
F15	0-15
F30	0-30
F60	0-60
G10	0-100
G15	0-150
G20	0-200
G30	0-300
G50	0-500
G60	0-600
H10	0-1000
H15	0-1500
H20	0-2000
H30	0-3000
H40	0-4000
H50	0-5000
H60	0-6000

4 Electrical Termination

-G=Large DIN (Mating Connector Supplied) -MXXX=IP68 Cable (Specify length in meters; e.g. -M012)

-C=6-Pin Connector (Mating Connector Not Supplied)

5 Circuit

-A=N.O. **-B**=N.C.

6 Factory Set Point¹

7 Re-Set Point¹

Note: 1. Set Points must be within Pressure Range selected in Step 2.

Accessories	
PN	Description
557254	Mating Connector for -G
165835	Mating Connector for -C

ar Measurement		
Pressure Range Code	Pressure Range (bar)	
A10	0-1	
A16	0-1.6	
A25	0-2.5	
A40	0-4	
A60	0-6	
B10	0-10	
B16	0-16	
B25	0-25	
B40	0-40	
B60	0-60	
C10	0-100	
C16	0-160	
C25	0-250	
C40	0-400	
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