

BOISWOOD GAS AND LIQUID CONTROL TECHNOLOGES Pressure & Vacuum Flow Level & Temperature Tube & Fittings

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.

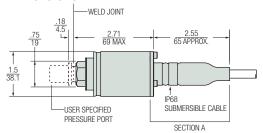
Specifications:

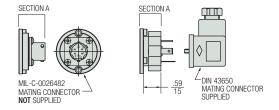
Operating Temperature	-40°F to +260°F (-40°C to +127°C)	
Switch	Relay or Transistor	
Repeatability*	.25% of Full Set point range @ 70°F (20°C)	
Fatigue Life	Designed for more than 100 million FS cycles	
Wetted Parts		
Diaphragm	17-4PH Stainless Steel	
Fitting	316 Stainless Steel	
Electrical Termination	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)	
* Deposts bility and set point of	units may shange due to the effects of temperature	

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



Dimensions





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
 - -OA = R1/4" External

Tables 1 — Pressure Range Codes

4 Electrical Termination

-G=Large DIN (Mating Connector Supplied)

-MXXX=IP68 Cable

(Specify length in meters; e.g. -M012)

Accessories PN

557254

165835

-C=6-Pin Connector

(Mating Connector Supplied)

- (5) Circuit
 - -A=N.O.
 - -**B**=N.C.
- (6) Factory Set Point¹
- 7 Re-Set Point¹

Note:

Description

Mating Connector for -G

Mating Connector for -C

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

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

Bar 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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