PS-E, PS-EH, and PS-EV Series— Economical Miniature Pressure Switches

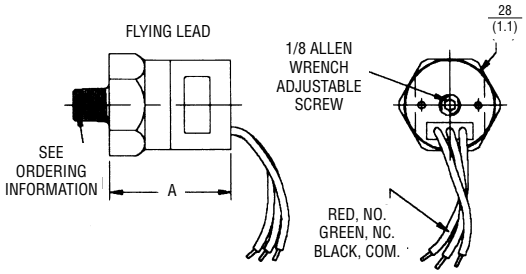
- Vacuum to 350 bar (5000 PSI)
- High Proof Pressures
- Variety of Pressure Ports and Lead Wires

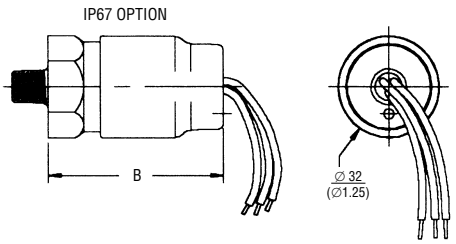
The Gems PS-E Series are designed for demanding applications where space and/or price are strong concerns. The switches utilise a piston/diaphragm design, which incorporates the high proof pressure of piston technology with the sensitivity of diaphragm designs. The switches can be field or factory set by a hidden Allen head adjustment that ensures against unauthorized tampering.

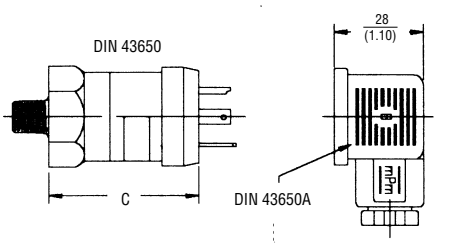
Specifications

Process/Ambient Temperature	-40°C to +80°C (-40°F to +176°F)
Switch	5 Amp, SPDT@120/240 VAC and 12/24 VDC (>2 million cycles)
Approvals	Microswitch is UL and CSA Recognised
Repeatability	2% of Highest Set Point @ 20°C (68°F)
Wetted Parts	
Diaphragm	Buna-N (Optional EPDM or Viton®)
Fitting	Zinc-Plated Steel (Optional SS or Brass)
Electrical Termination	IP65 (Nema 4) DIN 43650A, or 18" (0.5m) Long, 18 AWG (0.82mm2) PVC Jacketed Lead Wires (Optional IP67 Submersible Lead Wires)
Pressure Port	G or 1/4" NPT Male (E Series Also Features 1/8" NPT Male) (E, EH Also Available in 7/16"-20)
Proof Pressure	PS-E, EV 350 psi (25 bar) PS-EH 9000 psi (600 bar)
Weight, Approximate	0.3 lbs. (0.14 kg)

Dimensions mm (in)







Series	Dimension mm (ins)		
	A	B	C
PS-E; PS-EV	36 (1.50")	55 (2.16")	47 (1.85")
PS-EH	44 (1.73")	61 (2.39")	53 (2.08")

How To Order

Use the Bold characters from the chart below to construct a product code.

SELECT **PS -E -1 -4G -C -HC -X**

1. Series
   -E low pressure; **-EH** high pressure; **-EV** vacuum
2. Insert Range Code From Table Below
3. Pressure Port
   -4M 1/4" NPT male; **-4G** G 1/4 male; **-4S** 7/16-20" UNF male
4. Circuit
   -C SPDT; **-B** SPST/NC; (**-A** and **-B** options pertain to **-FL** versions)
5. Electrical Terminations
   -FL flying leads; **-FLWL** flying leads w/weather pack connector; **-H** DIN male only;
   -HC DIN connector w/strain relief; **-HN** DIN connector w/1/2" conduit
6. Options
   -1 Viton® diaphragm; **-2** EPDM diaphragm; **-3** 304 ss on 1/4" ports; **-4** brass for 1/4" ports(**);
   -7 gold electrical contacts; **-9** reduced deadband; **-B** oxygen cleaned; **-20** IP67 submersible (*);

Note: (+) For factory-set units specify set points and units followed by **-R** for rising or **-F** for falling
Example: PS-E-50psi-R-4M-A-FL (50psi, Rising, 1/4" NPT, Normally Open Switch, Leads)
(*) submersible option requires wire leads and factory preset set points (units are not field adjustable)
(**) PS-E, EV only

Series	Range Code	Adjustable Range	Average Dead Band
PS-E Pressure Switch	-1	0.2-0.5 bar 3-7 psi	70-140 mbar 1-2 psi
	-2	0.35-2 bar 5-30 psi	140-280 mbar 2-4 psi
	-4	2-7 bar 25-100 psi	210-850 mbar 3-12 psi
PS-EV Vacuum Switch	-1	150-500 mbar 5-15" Hg	100-150 mbar 3-5" Hg
	-2	400-925 mbar 12-28" Hg	100-200 mbar 3-6" Hg

Series	Range Code	Adjustable Range	Average Dead Band
PS-EH High Pressure Switch	-1	0.2-0.5 bar 10-30 psi	70-140 mbar 4-6 psi
	-2	1.5-5 bar 25-75 psi	0.35-0.65 bar 5-10 psi
	-3	4-20 bar 65-300 psi	1.3-2.6 bar 20-40 psi
	-4	17-70 bar 250-1000 psi	2.6-5.7 bar 40-85 psi
	-5	70-210 bar 1000-3000 psi	8-15 bar 120-220 psi
	-6	170-350 bar 2500-5000 psi	21-28 bar 300-400 psi

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