Pressure Switch

High Current

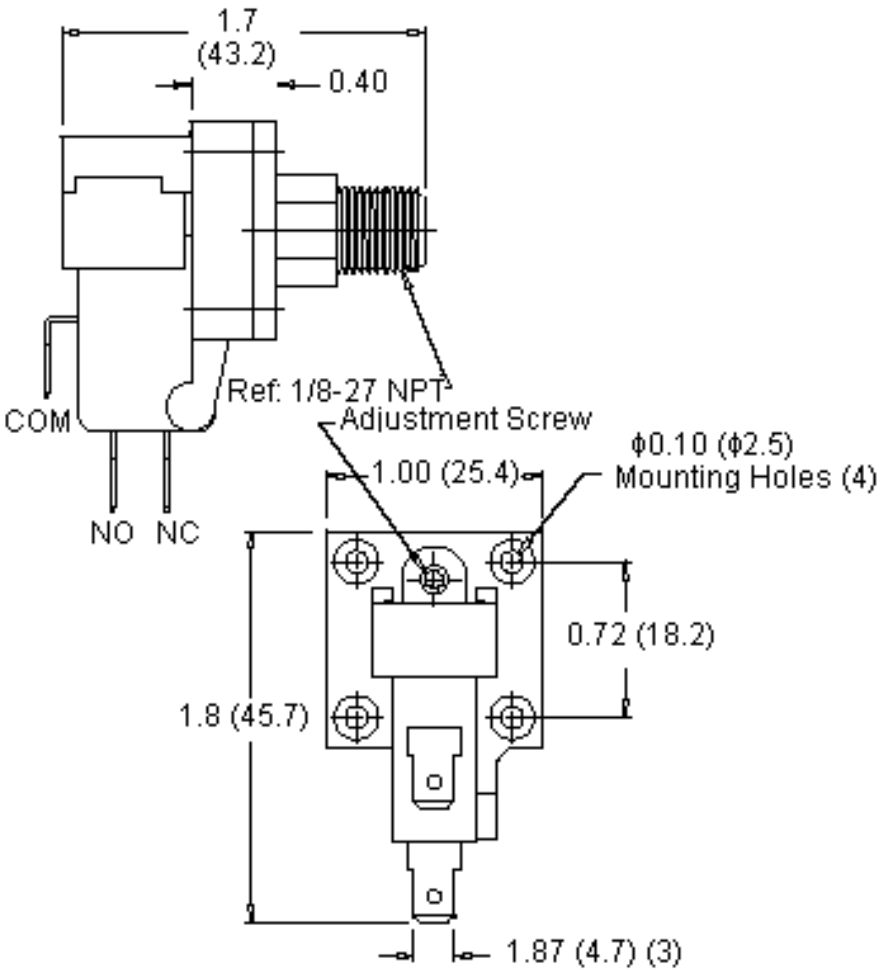


Features / Benefits:

- Controllable hysteresis (dead band)
- Field adjustable pressure set point, from 3 inches H_2O to 60 psi
- Snap action basic switch, up to 25A*, 125/250 VAC.
- Many standard pressure ports and mounting options.
- Custom design and engineering available.
- Dependable long life (10+ million cycles).

RoHS Compliant

* Not available on all ranges



Dimensions : Millimetres

Pressure Switch

High Current



Specifications:

Mechanical	
Standard tolerance	±20% (Tighter tolerances available)
Switch type	SPDT (single pull/double throw) normally open or normally closed
Switching medium	Air : compatible fluids
Mechanical life	More than 10 million cycles
Proof pressure	Varies by option - see adjustable pressure set point options next page
Operating temperature	+40°F to +150°F (standard) | -46°F to +205°F (contact us)
Physical	
Case material	Polycarbonate (optional : Lexan 141, Supec®, Ultem®, Nylon®)
Pressure port options	Many standard ports - see pressure port / cover options next page
Diaphragm material	Polyurethane (Teflon® optional with limited pressure ranges)
Contact points	Silver (Gold available on special order)
Electrical connections	Terminals - 0.187 inches x 0.020 inches tab - types for use with quick disconnects (ref. AMP #2-520182-2 or equivalent) 0.250 inches available
Mounting	#4 screws through mounting lugs; #2 screws through eyelets; mounting bracket available
Weight	Less than 20 grams
Electrical	
Current rating	Varies by option - see adjustable pressure set point options next page
Operating voltage	See adjustable pressure set point options next page

Design Flex Standard Options

Designflex™ standard options - choose from our standard PSF103 options as shown or contact our vertically integrated in-house design and engineering team for special features and unique application needs. Free sample switch available by request.

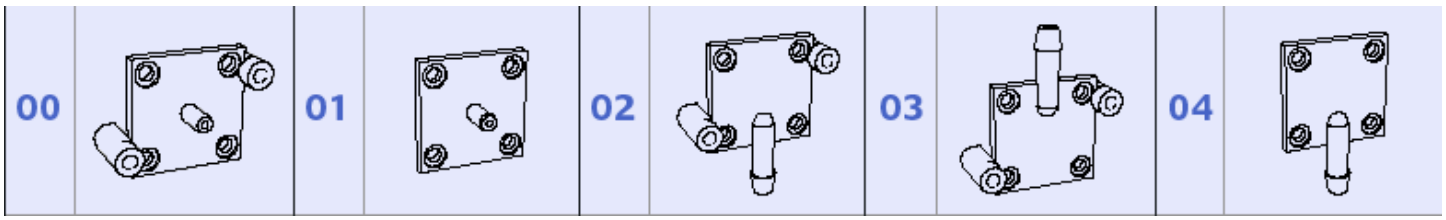
Pressure Switch

High Current

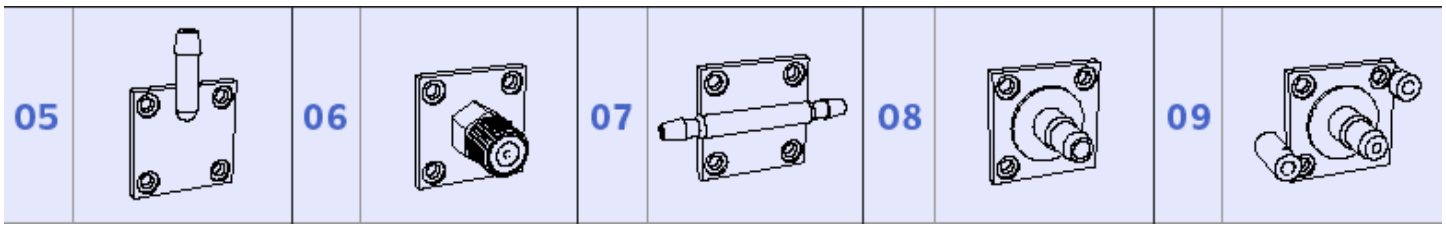
Adjustable Pressure Set Point Options

	020	902	903	904	905	906	
In. H_2O	2 ±0.5	3 to 10	10 to 28	28 to 111	111 to 416	416 to 1664	-
mbar	5	7.5 to 25	25 to 69	69 to 276	276 o 1034	1034 to 4137	-
psi	0.1	0.11 to 0.4	0.4 to 1.0	1.0 to 4.0	4.0 to 15.0	15.0 to 60.0*	*Teflon diaphragm 30 psi maximum
Proof Pressure (Polyurethane)	30 psi	30 psi	30 psi	30 psi	100 psi	100 psi	-
Proof Pressure (Teflon®)	15 psi	15 psi	30 psi	30 psi	30 psi	30 psi	-
Electrical 125/250 VAC	3A	3A	10A	15A	15A	15A	-

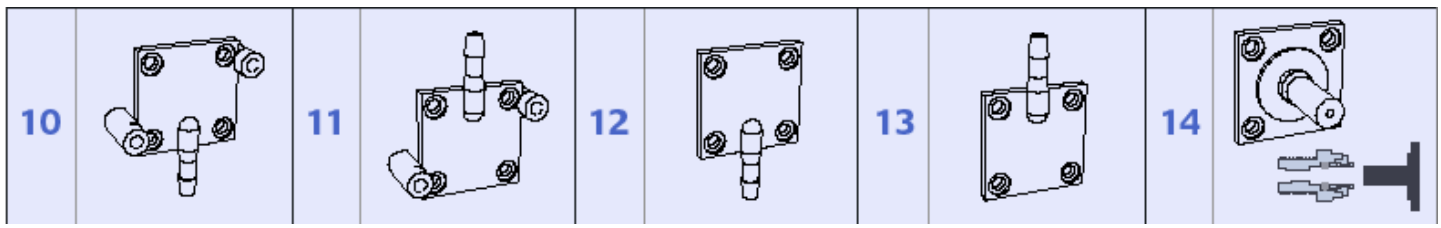
Pressure Port / Cover Options



00	01	02	03	04
Smooth Port .156" diameter for 1/8" id tubing w/mtg. lugs	Smooth Port .156" diameter for 1/8" id tubing w/o mtg. lugs	Barbed Port for 3/16" id tubing on terminals side w/mtg. lugs	Barbed Port for 3/16" id tubing opposite terminals w/mtg. lugs	Barbed Port for 3/16" id tubing on terminals side w/o mtg. lugs



05	06	07	08	09
Barbed Port for 3/16" id tubing opposite terminals w/o mtg. lugs	1/8" NPT Port	Flo-thru barbed Port for 1/8" id tubing w/o mtg. lugs	Smooth Port .250" diameter for 7/32" id tubing w/o mtg. lugs	Smooth Port .250" diameter for 7/32" id tubing w/mtg. lugs



10	11	12	13	14
Barbed Port for 1/8" id tubing on terminals side w/mtg. lugs	Barbed Port for 1/8" id tubing opposite terminals w/mtg. lugs	Barbed Port for 1/8" id tubing on terminals side w/o mtg. lugs	Barbed Port for 1/8" id tubing opposite terminals w/o mtg. lugs	1/4" Port for Quick Connect Fitting

Pressure Switch

High Current



Diagraph options

1. Polyurethane (standard)
2. Teflon (optional)

Other / custom porting and mounting options available

Model design guide for building standard model order number	PSF103 Series Number	Pressure Port/Cover Option Number		Diaphragm Option Number	Three Digit Pressure Set Point Option Number		
	9	-	-	-	-	-	-

Part Number Table

Description	Part Number
Pressure Switch, 0.11 - 0.4 Psi	PSF103-9011-902
Pressure Switch, 0.4 - 1 Psi	PSF103-9011-903
Pressure Switch, 1 - 4 Psi	PSF103-9011-904

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2009.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

multicomp:

CF06332T/4/10 MC0603B393K500CT MC0603N100J201CT SMAJ160A-13-F 2213R-24G MC0603N100F500CT MCMR08X2000FTL MCSDC0603-560KU MCSDRH73B-681MHF CFS-TF-1818 CMS-DF-1825 SPC19989 MCMET 800MA 250V MCMF0W4FF8202A50 MCMR06X1004FTL MCMR50V335M4X7 MCWR08X39R0FTL MC-SVT1-S06-G MC34589 MP005415 MCSR08X3300FTL MP006937 MP006964 MC0402WGF499JTCE MC36427 MCAL0410A1-471KU MC34747 MUR1540 MCLPR50V478M30X25 MCWF12R7150BTL