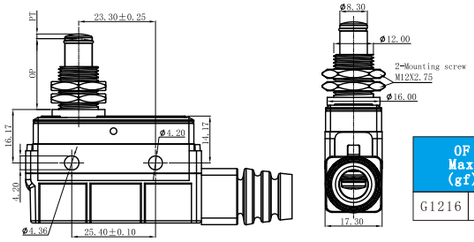
◆G12□□-3RQ1□□-□

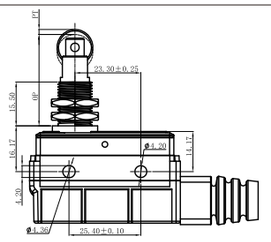


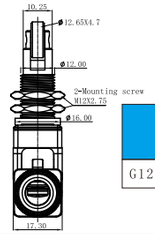


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	5.5	0.05	23	21.8±0.8

◆G12□□-3RQ2□□-□



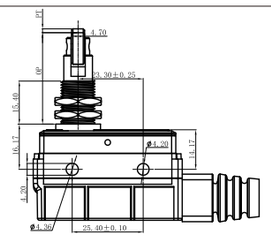


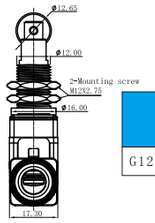


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	3.58	0.05	35	33.4±1.2

◆G12□□-3RQ3□□-□



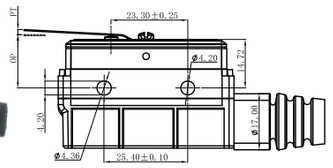


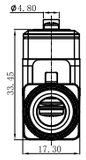


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	3.58	0.05	35	33.4±1.2

◆G12□□-3RL1□□-□



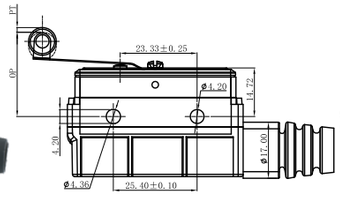


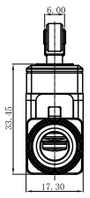


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	140	14	4.0	1.6	1.3	20.6	17.4±0.8

◆G12□□-3RL2□□-□







OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	150	14	4.0	1.6	1.3	31.8	28.6±0.8

GPS100Series

Air Pressure Switch
GPS100 Series

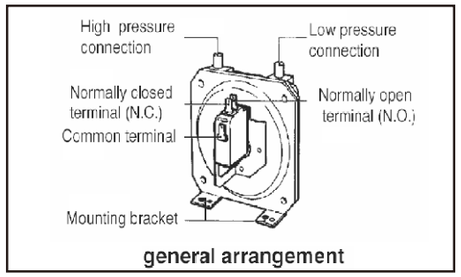


Application:

GPS100Series pressure switches are especially designed for high volume OEM market. Typical applications include boilers, hot water heaters, HVAC and other industrial equipments.

These switches could be customized set points and can be used to sence positive, negative or differential air pressure.

A sensitive high reliability snap action switch is used as the main switching element. The snap action switch can provide a high switching capability up to 16A 125/250VAC.



general arrangement

Specifications
Set Point:

Set-Point Range: 10-1500Pa
Operating Pressure Range: 25-1500Pa
Switch Pressure Range: 10Pa Min
Fixed set-point calibrated in factory.

Maximum Pressure Allowed: 4000pa.

Switch Rating:
0.1A 125/250VAC, 3A 125/250VAC
5A 125/250VAC, 16A 125、250VAC
(Resistive Load)
Switching Element:
Snap Action Switch
Circuit Configuration
SPDT, SPST-NO, SPST-NC
Measured Media: Air
Operating Temperature: -40~+90° C

Installation&Sample Line Connection

Mounting:

Always mount with the diaphragm in vertical plane in order to maintain the specified operating point fixed in the factory.。
Avoid mounting with sample-line connections directed upward.

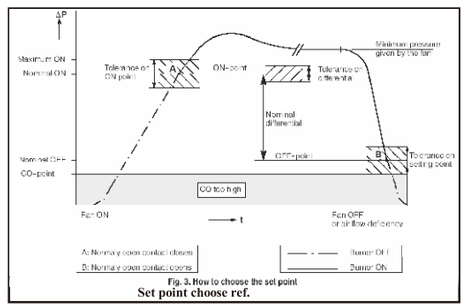
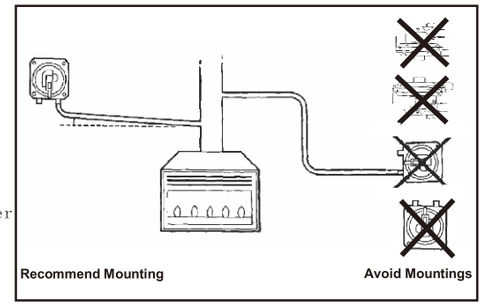


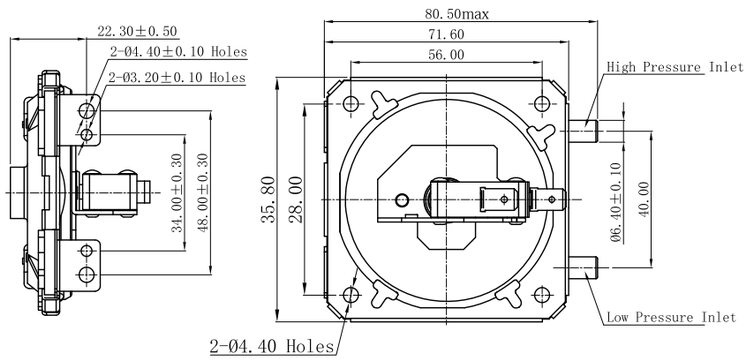
Fig. 3. How to choose the set point
Set point choose ref.

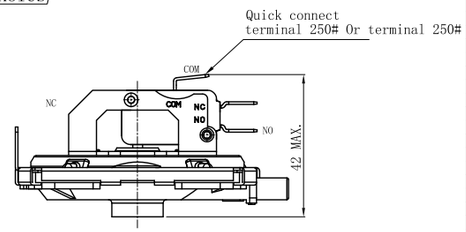
Positive Pressure Sensing Only:
Connect the sample-line to H while L remains open to the atmosphere。

Negative Pressure Sensing Only:
Connect the sample-line to L while H remains open to the atmosphere。

Differential Pressure Sensing:
Connect the higher pressure sample line to H and the lower pressure samples-line to L.



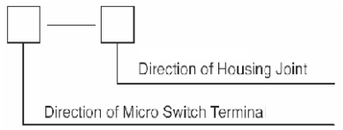




Pressure Conversion Table

1Pa=	0.01	mbar
(pascal N/m²)	1x10(-7)	bar
	102x10(-7)	kg/cm²
	0.102	mm H20
	0.0075	mm Hg
	145x10(-6)	Psi
1mbar=	100	Pa
(millibar)	0.001	bar
	102x10(-5)	kg/cm²
	10.2	mm H20
	0.750	mm Hg
	0.0145	Psi
1bar=	100 000	Pa
	1000	mbar
	1.02	kg/cm²
	10200	mm H20
	750	mm Hg
	145.038	psi
1Kg/cm²=	98100	Pa
Kilogram per cm²	981	mbar
	0.981	bar
	10000	mm H20
	736	Psi
	142.233	Pa
1mm H20=	9.81	Pa
(mm water gauge)	0.098	mbar
	98.1x10(-6)	bar
	0.0001	kg/cm²
	0.0736	mm H20
	0.001422	Psi
1mm Hg=	133.3	Pa
(mm mercury)	1.33	mbar
	0.00133	bar
	0.001359	kg/cm²
	13.59	mm H20
	0.01934	Psi
1psi=	6895.06	Pa
(pounds per sginch)	68.95	mbar
	0.06895	bar
	0.07031	kg/cm²
	703.01	mm H20
	51.717	mm Hg

Assembled Shape:



GPS100 Series Air Pressure Switch Ordering Instruction

GPS100	39	- 90	CC	- 1	C	Z	G	L
Switch Type	Off Pressure Set Point	On Pressure Set Point	Assembled Shape	Electrical Rating	Terminal Type	Circuit Code	Color of Micro Switch	Pressure Type
GPS100 Series Air Pressure Switch	According to customer's requirements	According to customer's requirements	Refer to "Assembled Shape"	1 <0.1A 2 ≥0.1A and≤5A 3 >5A and≤16A 4 >16A	C 6.30x0.80mm 0.250" x0.032" 250#Quick Connect Terminals E 4.70x0.5mm 0.187" x0.020" 187#Quick Connect Terminals	C SPST-NC P SPST-NO Z SPDT	G Grey B Black	H Positive Pressure L Negative Pressure



GT01 Series Detector Switch

Micro Switch Type, could be Solded with Wires or used on PCB Board

■Features

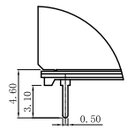
-Small size, light weigt and high precision
-Long life time, multi-choices on operating force

■Applications

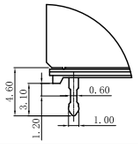
-Widely used in automobile, motorcycles, remote control device, industrial machines, machines, telecommunication equipment, navigation and car audio system etc.

Terminal Type (单位/Unit: mm)

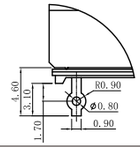
P: PCB Terminals



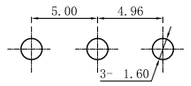
L: Lead Terminals



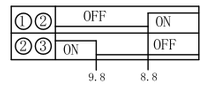
S: Lead Terminals(screw mounting)



PCB board mounting hole dimensions
(Viewed from direction A)



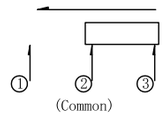
Timing lag diagram



Travel position (X)

● Push direction only

Circuit Diagram
(Viewed from direction A)



(Common)

■ Typical Specifications

Electrical Characteristics	Rating	0.1A 12VDC/50μA 3VDC
	Contact Resistance	100mΩMax(Initial Value)
	Insulation Resistence	50MΩMin
	Voltage Proof	AC 50V(50-60Hz) 1Minute
	Eletrical Life	10,000cycles(Min)
Mechanical/reliability Characteristics	Operating Force	See Detail Spec
	Mechanical Life	100,000cycles(Min)
	Operating Temperature Range	-25° C~+80° C
	Storage Humidity	≤85%RH
	Solder Ability	260° C±5° C 3s±1s