G12 Series

large basic Limit Switch



Features

-Housing are Made of High Temperature Bake Lite
-Precise Operation Repeatability
-Long Mechanical Life
-ENEC/UL/CUL/CQC Approved

Application

-Machine Tools
-Elevators
-Auto Production Line
-Civilian, Industrial Machinery Field
-Any Automation Applications in Automative Field

Parameters:

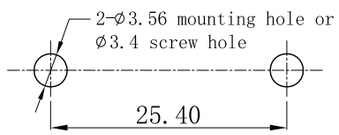
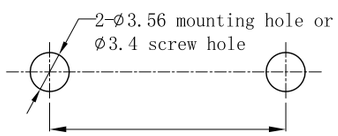
Rating	16A	ENEC/CQC 16A 125/250 or 480VAC 1/8HP 125VAC 1/4HP 250VAC 0.5A 125VDC 0.25A 250VDC
		UL/cUL 16A 125/250VAC 5E4 μ 40T85
	22A	ENEC/CQC 22A 125/250 or 480VAC 1/4HP 125VAC 1/2HP 250VAC 0.5A 125VDC 0.25A 250VDC
		UL/cUL 22A 125/250VAC 5E4 μ 40T85
	26A	ENEC/CQC 26A 125/250 or 480VAC 1/4HP 125VAC 1/2HP 250VAC 0.5A 125VDC 0.25A 250VDC
		UL/cUL 26A 125/250VAC 5E4 μ 40T85
Operating Frequency	Electrical	10～30 cycles/min
	Mechanical	240 cycles/min
Contact Resistance(Initial Value)		50mΩ Max
Insulation Resistance(at500 VDC)		100MΩ Min(at500VDC)
Dielectric Strength	between terminals	1500VAC 50/60Hz 1min
	between terminals and housing	2500VAC 50/60Hz 1min
Storage Temperature		-40℃～+85℃
Storage Humidity		85%RH Max
Service Life	Electrical	50,000 cyles or 100,000 cyles Depends on part No.
	Mechanical	10,000,000 cycles
Unit Net Weight		Approx60g(Drip proof panel mounting type)

G12Series Micro Switch Ordering Instruction

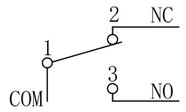
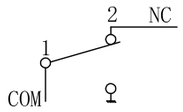
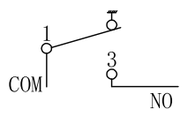
G12	Switch Type	G12 Series Micro Switch							
16	Electrical Life	16	UL/CUL: 16A 125/250 or 480VAC 1/8HP 125VAC 1/4HP 250VAC 0.5A 125VDC 0.25A 250VDC ENEC/CQC: 16A 250VAC 5E4 μ 40T85	22	UL/CUL: 22A 125/250 or 480VAC 1/4HP 125VAC 1/2HP 250VAC 0.5A 125VDC 0.25A 250VDC ENEC: 22A 250VAC 5E4 μ 40T85	26	UL/CUL: 26A 125/250 or 480VAC 1/2HP 125VAC 1HP 250VAC 0.5A 125VDC 0.25A 250VDC ENEC: 26A 250VAC 5E4 μ 40T85	...	Other
1	Protection Type	1	General Type	2	Ip62 Drip Proof Type	3	Ip63 Drip Proof Type (Terminal Included)		
R1	Level Type	R1	Pin Plunger	RD1	Spring Pin Plunger	RQ1	Panel Mounting Plunger	RQ2	Panel Mounting roller Plunger
		RQ3	Panel Mounting Cross Roller Plunger	RW1	Swing Lever	RW2	Short Swing Lever	RW3	Roller Swing Lever
		RW4	Short Swing Lever	RL1	Spring Straight Lever	RL2	Spring Roller Lever	...	Other
A	Circuit Code	A	SPDT	B	SPST-NC	C	SPST-NO		
A	Terminal Type	A	Screw Terminals	B	Solder Terminals	...	Other		
K	Special designator	Mounting Hole		K	Mounting Hole	D	Special for High DC Rating	...	Other
X	Special designator	Here means special designator letter, refer to product specification for details.							

■Mounting Hole Dimensions

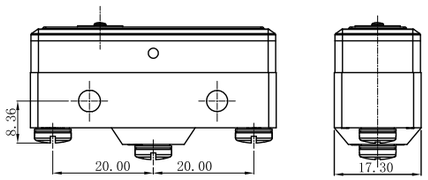
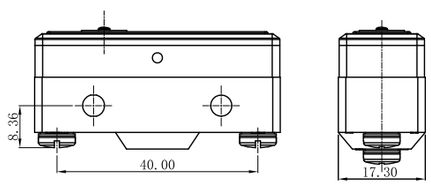
(单位Unit:mm)

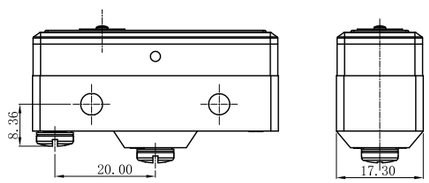
Φ3.56 mounting hole or Φ3.4 screw hole	Φ4.2 mounting hole or Φ4.0 screw hole
	

■Circuit Configuration

A#: SPDT	B#: SPST-NC	C#: SPST-NO
		

■Terminal Type and Dimensions

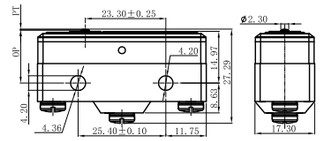
A SPDT	B SPST-NC
	

C SPST-NO	
	Tighten the screw with torque of 0.78 to 1.18N.M

■Dimensions and Operating Characteristics

◆G12□□-1R1□□-□

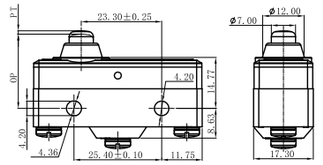




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	0.13	0.1	16.7	15.9±0.4
G1222	620				0.2		
G1226							

◆G12□□-1RD1□□-□

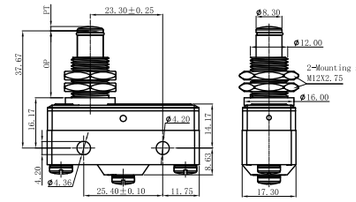




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	1.5	0.1	22.5	21.5±0.5
G1222	620				0.2		
G1226							

◆G12□□-1RQ1□□-□

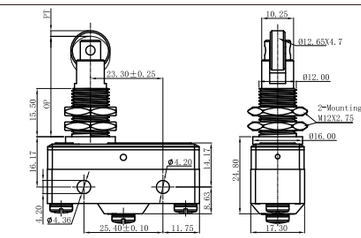




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	5.5	0.1	23	21.8±0.8
G1222	620				0.2		
G1226							

◆G12□□-1RQ2□□-□

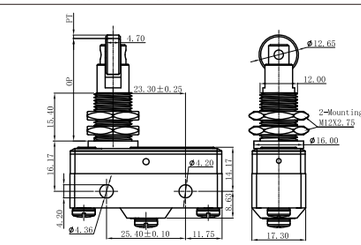




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	3.58	0.1	35	33.4±1.2
G1222	620				0.2		
G1226							

◆G12□□-1RQ3□□-□

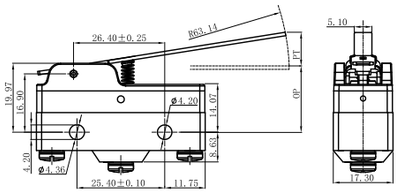




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	3.58	0.1	35	33.4±1.2
G1222	620				0.2		
G1226							

◆G12□□-1RW1□□-□

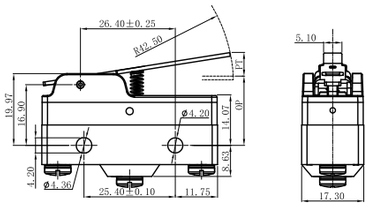




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	70	14	10.0	5.6	2	28.2	19.0±2.0
G1222	120						
G1226							

◆G12□□-1RW2□□-□

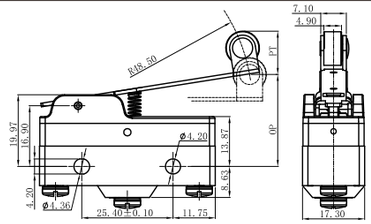




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	105	20	6.6	3.7	0.85	24.5	19.0±1.5
G1222 G1226	180						

◆G12□□-1RW3□□-□

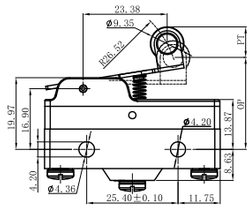


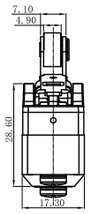


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	100	20	7.1	4	1.02	36.5	30.2±2.0
G1222 G1226	170						

◆G12□□-1RW4□□-□



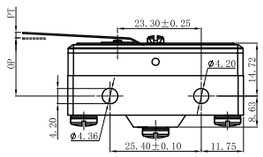


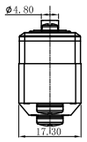


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	160	40	2.7	2.4	0.8	32.5	30.2±1.0
G1222 G1226	270						

◆G12□□-1RL1□□-□



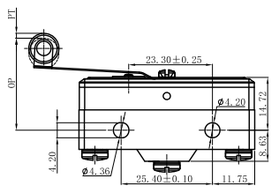


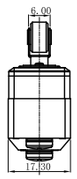


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	140	14	4.0	1.6	1.3	20.6	17.4±0.8
G1222 G1226	230						

◆G12□□-1RL2□□-□



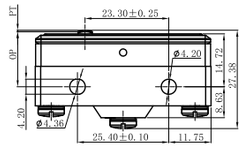




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	150	14	4.0	1.6	1.3	31.8	28.6±0.8
G1222 G1226	250						

◆G12□□-2R1□□-□



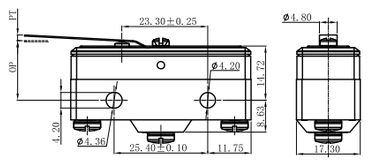




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	430	115	0.7	0.13	0.06	16.5	15.9±0.4

◆G12□□-2RL1□□-□

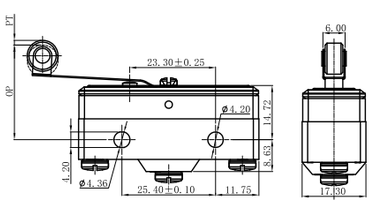




OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216 140	14	4.0	1.6	1.3	20.6	17.4±0.8

◆G12□□-2RL2□□-□

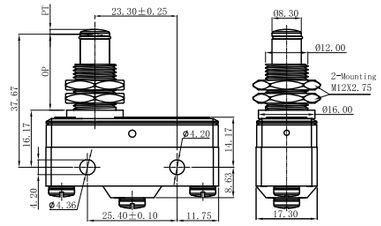




OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216 140	14	4.0	1.6	1.3	31.8	28.6±0.8

◆G12□□-2RQ1□□-□

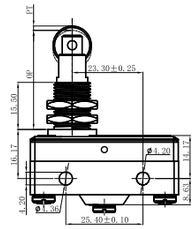


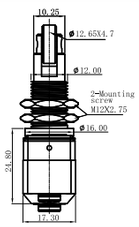


OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216 370	115	0.7	5.5	0.05	23	21.8±0.8

◆G12□□-2RQ2□□-□



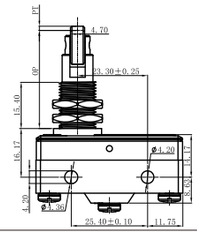


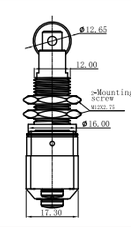


OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216 370	115	0.7	3.58	0.05	35	33.4±1.2

◆G12□□-2RQ3□□-□



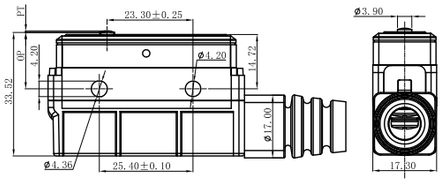




OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216 370	115	0.7	3.58	0.05	35	33.4±1.2

◆G12□□-3R1□□-□

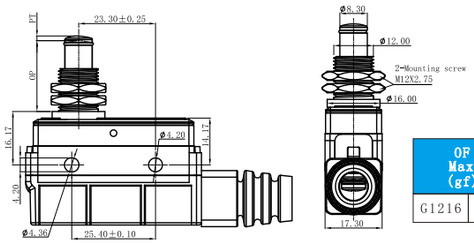




OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216 370	115	0.7	0.13	0.05	16.5	15.9±0.4

◆G12□□-3RQ1□□-□

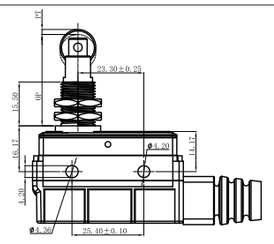


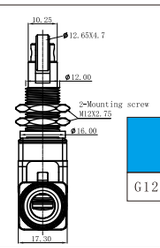


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	5.5	0.05	23	21.8±0.8

◆G12□□-3RQ2□□-□



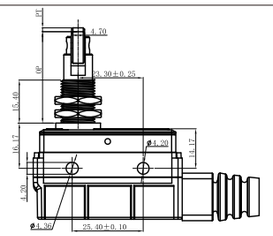


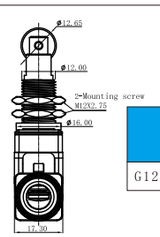


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	3.58	0.05	35	33.4±1.2

◆G12□□-3RQ3□□-□



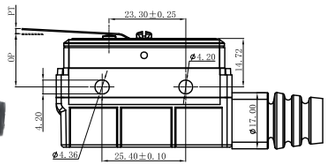


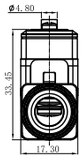


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	370	115	0.7	3.58	0.05	35	33.4±1.2

◆G12□□-3RL1□□-□



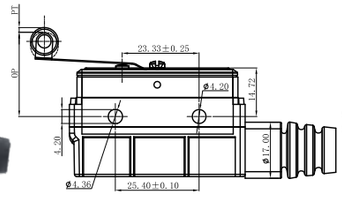


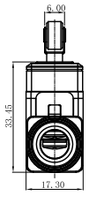


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	OP (mm)
G1216	140	14	4.0	1.6	1.3	20.6	17.4±0.8

◆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

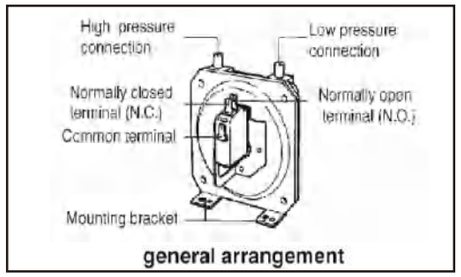


Application:

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.

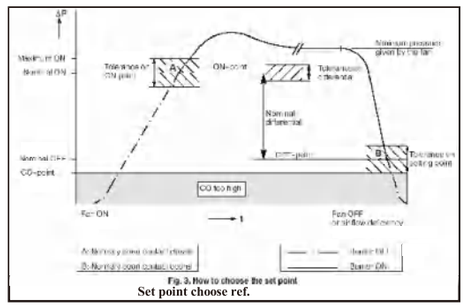


Fig. 3. How to choose the set point
Set point choose ref.

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.

