

Model PSW120 series

Mechanical pressure switch
0.2 bar to 400 bar

Materontek
Sensing and Internet of Things

The inner piston is connected with the precision spring. When the pressure changes, the spring extension and shrinkage will change correspondingly. When the pressure reaches the set value, the preset mechanical structure will be triggered and a switch signal will be sent.

Features

- Mechanical Pressure Switches
- Repeatability: $\pm 3\%$ FS
- Pressure range: 0.2 bar...400 bar
- Overload limit: max.600 bar

Application

- Industrial automation system
- Process control

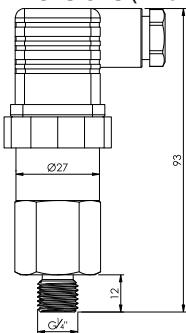


Technical data

Initial state	Open, Close
Pilot duty	\leq DC 42V, 1A \leq DC 115V, 0.15A \leq AC 42V, 3A \leq AC 125V, 3A \leq AC 250V, 0.5A
Repeatability	$\pm 3\%$ FS
Hysteresis	10...20% set value
Pressure interface	G1/8, 1/4NPT, G1/4, G1/2, M12 x 1.5, M20 x 1.5
Electrical interface	DIN43650
Operating Temperature	-20 to 85°C
Diaphragm material	NBR
Piston material	Steel
Protection	IP65

The listed specifications and dimensions are subject to change without prior notice

Dimensions (All dimensions in mm)



Ordering code

Model	Measuring range	Pressure Port	Label
PSW120	01 0.2...2.5bar (Diaphragms)	M1 G $\frac{1}{8}$ male	S Standard
	02 0.8...5bar (Diaphragms)	M2 G $\frac{1}{4}$ male	N Neutral packing
	03 1...12bar (Diaphragms)	M3 G $\frac{1}{2}$ male	C Custom label
	04 5...50bar (Diaphragms)	M4 $\frac{1}{8}$ NPT male	
	05 10...100bar (Piston)	M5 $\frac{1}{4}$ NPT male	
	06 20...200bar (Piston)	M6 $\frac{1}{2}$ NPT male	
	07 50...400bar (Piston)	M7 M12x1.5 male	
	99 Custom	M8 M14x1.5 male	
		M9 M20x1.5 male	
		99 Custom	

