

Model PSW100 series

Mechanical pressure switch
0.3 bar to 100 bar
Mass production

Materontek
 Sensing and Internet of Things

The inner piston is connected to the spring of tightness. When the pressure changes, the spring stretching amount changes correspondingly. When the pressure reaches the set value, it will trigger the preset mechanical structure and send out a switch signal. These compact pressure switches are designed for OEM applications and they are ideal for construction machinery Marine valve remote control systems that require high pressure resistant equipment. The abnormal volume pressure range ratio of 0.3 to 100 bar (set point optional: piston set point can be more than 200 bar) can be set by factory or adjusted on site.

Features

- ❑ Mechanical Pressure Switches
- ❑ Repeatability: $\pm 3\%$ FS
- ❑ Pressure range: 0.3 bar...100 bar
- ❑ Overload limit: max.300 bar

Application

- ❑ Industrial automation system
- ❑ Process control



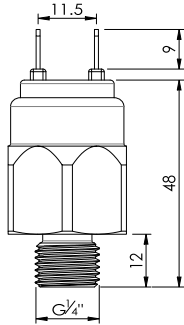
Technical data

Performance

Initial state	Open, Close
Pilot duty	100 VA
Repeatability	$\pm 3\%$ FS
Pressure interface	G1/8, 1/4 NPT, M12 x 1.5; M20 x 1.5
Electrical interface	two 6.3 x 0.8mm contacts (standard)
Operating Temperature	-20 to 80°C
Life time	1x10 ⁶

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

Dimensions (All dimensions in mm)



Type 1

Protective cap/with single wire hole for $\varnothing 1.5\sim 5$ mm cable



Type 2

Protective cap/with double wire hole for $\varnothing 1.7\sim 2.2$ mm cable



Ordering code

Model	Initial state	Measuring range	Pressure Port	Accessory	Label
PSW100	NO Open	01 0.03...0.3MPa	M1 G $\frac{1}{8}$ male	0 Without Protective cap	S Standard
	NC Close	02 0.1...0.4MPa	M2 G $\frac{1}{4}$ male	1 Protective cap/with single wire hole for $\varnothing 1.5\sim 5$ mm cable	N Neutral packing
		03 0.06...0.6MPa	M3 G $\frac{1}{2}$ male	2 Protective cap/with double wire hole for $\varnothing 1.7\sim 2.2$ mm cable	C Custom label
		04 0.5...1.5MPa	M4 $\frac{1}{8}$ NPT male		
		05 0.1...1.3MPa	M5 $\frac{1}{4}$ NPT male		
		06 1.6...4.0MPa	M6 $\frac{1}{2}$ NPT male		
		07 0.4...2.8MPa	M7 M10x1 male		
		08 4.1...7.0MPa	M8 M12x1.5 male		
		09 0.6...6.0MPa	M9 M14x1.5 male		
		10 7.1...10MPa	M0 M20x1.5 male		
		11 5...15MPa	99 Custom		
		99 Custom			