

SMALL PRESSURE SWITCH MODEL SPS11



SPS11 small pressure switch mode

1)SPS11-22 Small pressure switch 2)SPS11-12 Small pressure switch 3)SPS11-27 Small pressure switch

Features

The SPS11 switches are fixed set point, factory-calibrated pressure switches. They have an automatic reset and can have normally open or normally closed contacts. All metallic wetted components make the SPS11 switch compatible with a multitude of chemicals in liquid or gas form. It offers numerous types of electrical terminations, from different sizes and styles of push-on terminals to wire leads with an array of standard industry connectors.

- Switch with automatic reset design
- Suitable for applications such as air and water pressure control, internal circuitry of electrical refrigeration equipment, indoor air conditioning, or indoor cooling devices
- Wide pressure setting range, suitable for different requirements

Technical parameter

General

Basic information

Pressure set range	From 0.02 MPa to 6.5 MPa; below 1.0 MPa (gauge pressure) is considered low pressure, while 1.0 MPa and above is considered high pressure
Process connection	M threads (below M10), M threads (above M12), NPT threads, R threads, G threads, UNF threads, and copper pipes, etc
Burst pressure	34.5MPax1min, no damage or leakage
Mechanical lifespan (switching cycles)	100,000
Electrical lifespan (switching cycles)	30,000
Tests/Admissions	UL

Electrical overview

Switching load	24...250 VAC/ 0.02...6 A; 8...36 VDC/ 0.02...3A; 600 VAC 0.02...3 A(UL)
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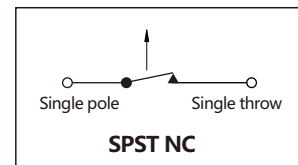
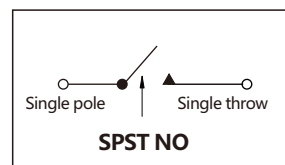
120 VAC/ 6 A; 250 VAC/ 6 A(CE); 250 VAC/ 3 A(CQC)

Under the condition of ensuring electrical lifespan without pressure difference switch, the maximum current is 0.5 A

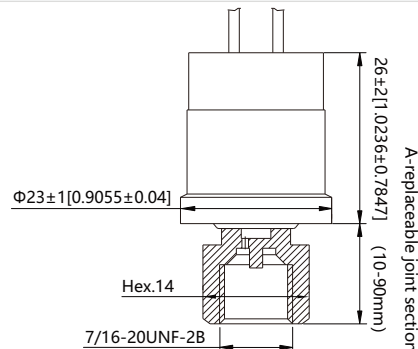
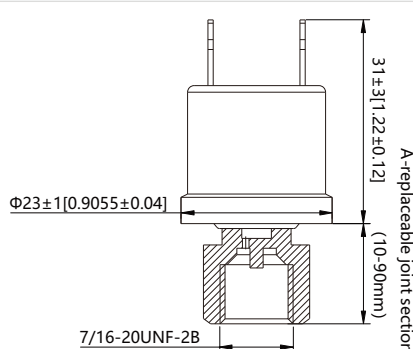
Operating conditions

Medium	Air, water, motor oils, transmission oils, jet fuels and other similar Hydrocarbon Media
Temperature	Ambient: -40...+65°C[-40...+149°F](Low pressure); -40...+120°C[-40...+248°F](High pressure) Medium: -40...+80°C[-40...+176°F](Low pressure); -40...+135°C[-40...+275°F](High pressure)
IP grade	IP67

Contact version



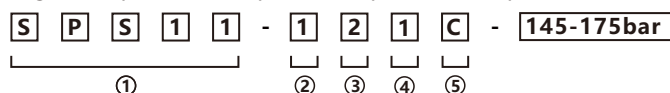
Dimensiones in mm(in)



Ordering information

Example part number: SPS11-121C-145-175bar

Model SPS11 small pressure switch, electrical connections: wire leads, process connection: M thread (below M10), base material: brass, contact version: SPST-NC, Pressure setting: Reset pressure 145 psi, Action pressure 175 psi.



①	Name	Action Pressure	Tolerance	Proof Pressure
SPS11		0.02<<0.6 MPa	±0.03 MPa	1.5 MPa
		0.6<<1.0 MPa	±0.05 MPa	2.0 MPa
		1.0<<2.0 MPa	±0.07 MPa	3.0 MPa
		2.0<<3.0 MPa	±0.10 MPa	4.0 MPa
		3.0<<4.0 MPa	±0.15 MPa	5.5 MPa
		4.0<<5.0 MPa	±0.20 MPa	6.5 MPa
		5.0<<6.5 MPa	±0.25 MPa	8.0 MPa

②	Electrical Connections
1	Wire leads
2	Blade

③	Process Connection
0	Other (Insert rod/Barb)
2	M thread (below M10)
3	M thread (below M12)
4	NPT thread
5	R thread
6	G thread
7	UNF thread
8	Purple copper tube

④	Base Material
1	Brass
2	Stainless steel
8	Purple copper
⑤	Contact Version
C	SPST-NC
O	SPST-NO

1bar=100kPa=0.1MPa=14.5psi

Please make separate remarks for special requirements.