

# 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

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.

## Features

- 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 (gauge pressure)	From 0.02 MPa to 6.5 MPa; below 1.0 MPa 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...250VAC/0.02...6A; 8...36VDC/0.02...3A 600VAC 0.02...3A(UL)
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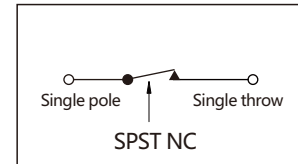
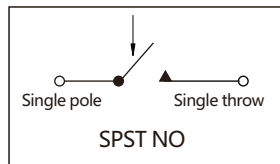
120VAC/6A;250VAC/6A(CE);250VAC/3A(CQC)

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

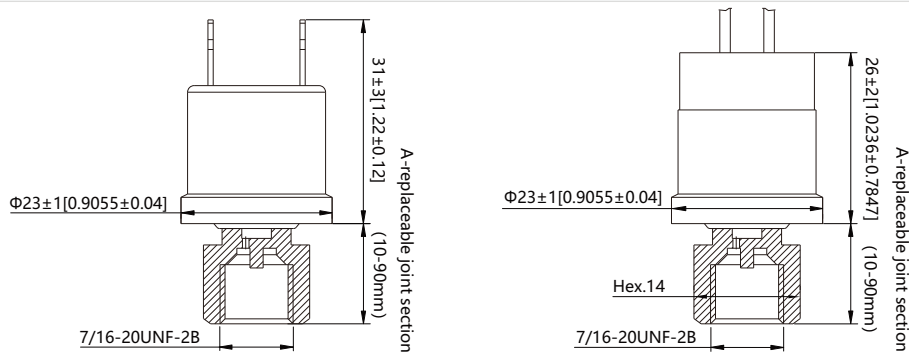
#### Operating conditions

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



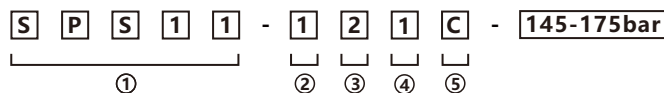
#### Dimensiones in mm(in)



#### 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 145psi,Action pressure 175psi.



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

Electrical Connections	
1	Wire leads
2	Blade

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

Base Material	
1	Brass
2	Stainless steel
8	Purple copper

Contact Version	
C	SPST-NC
O	SPST-NO

1bar=100kPa=0.1MPa=14.5psi

Please make separate remarks for special requirements.