

# Mechanical Pressure Switch

- Adjustable switch point
- Pressure ranges from 1.3 to 725 PSI
- Rated for 1 million mechanical cycles
- Temperature ranges from -40°F to 212°F (-40°C to 100°C)
- Housings in stainless steel and zinc plated steel
- SPDT contacts in silver cadmium alloy rated for 4A at 250VAC / 42VDC
- Up to IP67



## About

The P409 is a rugged plunger-type mechanical pressure switch designed to monitor and respond to pressure thresholds in demanding mechanical environments. Built with a user choice of zinc-plated steel or stainless steel, and featuring SPDT silver cadmium alloy contacts, it supports voltages up to 250 VAC and 42 VDC. This switch accommodates working pressure inputs from 1.3 PSI to 725 PSI and can withstand up to 8,702 PSI burst pressures. Available in a wide variety of pressure and electrical ports, the P409 is a popular choice for OEM's requiring low, medium and high quantity volumes at budgetary friendly price points.

## Applications

- ✓ HVAC & Refrigeration
- ✓ Automation Controls
- ✓ Water Management
- ✓ Hydraulics
- ✓ Pneumatics
- ✓ Equipment Builders
- ✓ Skid Packages
- ✓ More

## Build Your Part Number

## Series P409

Example: P4094DES5AC22560

## Series

P409

## Pressure Range - select one

	PSI	Bar
1	1.3 ... 21 ±2.9 PSI (NBR diaphragm only)	0.3 ... 1.5 ±0.2 bar
2	43.5 ... 87 ± 4.3 PSI	3 ... 6 ±0.3 bar
3	43.5 ... 145 ± 7.2 PSI	3 ... 10 ±0.5 bar
4	72.5 ... 290 ± 14.5 PSI	5 ... 20 ±1 bar
5	217 ... 725 ± 29 PSI	15 ... 50 ±2 bar

## Switch Point Direction - select one

R	Increasing pressure
D	Decreasing pressure

## Diaphragm - select one

N	NBR
F	FKM
E	EPDM

## Body Material - select one

Z	Zinc Plated Steel
S	Stainless Steel

## Process Connection - select one

5A	1/8" NPT male
5C	1/4" NPT male
5G	7/16"-20 UNF male (SAE 4)
5L	9/16"-18 UNF male (SAE6)
5M	G 1/8" Male
5N	G 1/4" Male
5Q	G 1/2" Male
5P	G 3/4" Female

## Electrical Termination - select one (refer to page 3)

D	DIN 43650A (includes field wire able female mating connector)
F	Faston Spades
C	Integrated cable (non removable)

## Factory Set Point - please provide in psi

XX	Ex: 225 = 225 psi
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## Integrated Cable length - only for option C

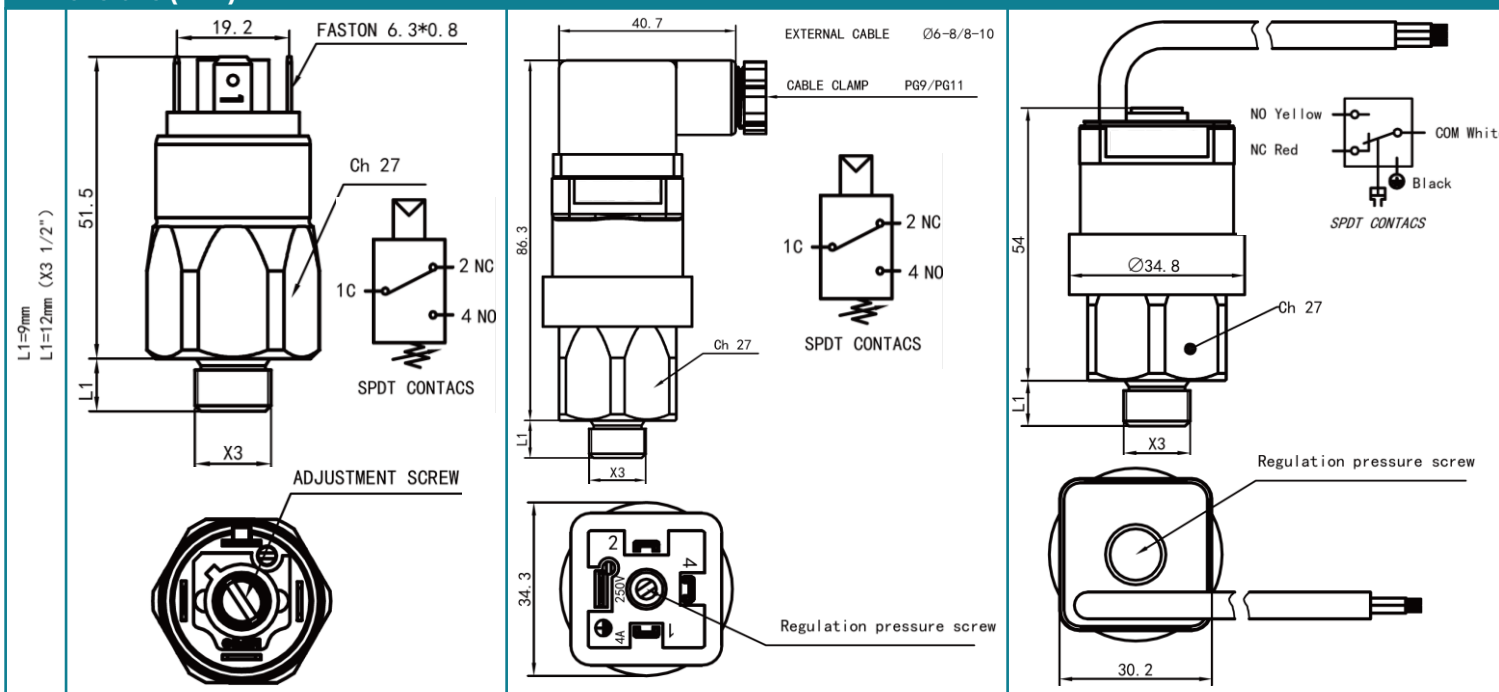
XX	Ex: 60 = 60" (inches)
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# Technical Parameters

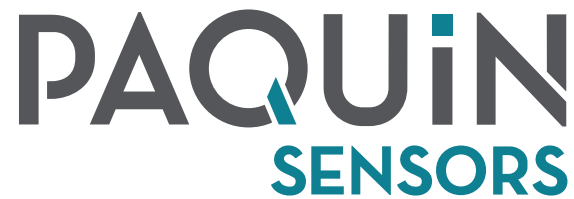
## Technical Parameters

<b>Accuracy</b>	Switching Hysteresis	30% of the set pressure (ex: pressure setting 600 PSI, hysteresis 180 = PSI)
	Repeated Accuracy	2%
	Mechanic Life Endurance	10 <sup>6</sup> times
	Electric Life Endurance	10 <sup>5</sup> times
<b>Electrical</b>	Max Voltage	250 VAC / 42 VDC
	Max Current	4 A
<b>Environmental</b>	Max Working Pressure	6,526 PSI (450 bar)
	Max Shock	6,526 PSI (450 bar)
	Burst Pressure	8,702 PSI (600 bar), SPDT
	Max Vibration	10-60Hz, peak amplitude 0.15mm, acceleration 20m/s <sup>2</sup> , vibration duration 2 hours
	Working Temperature Range	-40°F ... 212°F (-40°C ... 100°C) (Different Diaphragm)
	IP Protection	Faston spades IP00
		DIN 43650A IP65 (only with approved mating connector installed)
		Integrated Cable IP67
<b>Material</b>	Applicable Rule	EN 60730-1
	Pollution Situation	Normal
	Body	Zinc plated steel / Stainless steel
	Contact	Silver cadmium alloy
	Weight	~140g

## Dimensions (mm)



# Additional Information



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