

# Mechanical Pressure Switch

- Switch point adjustable by hand turn of housing barrel
- 10 Amps / 250 VAC  
4 Amps / 30 VDC
- Temperatures ranges from -58°F to 266°F
- 1 million cycle durability
- Pressure settings from 725 to 7,250 psi
- IP65/IP67-rated enclosures ensure protection against dust and water ingress



## About

The P50 is a compact, hand adjustable switch designed for applications requiring precise pressure monitoring and control. With selectable contact types (SPST-NO, SPST-NC, & SPDT) and a broad operating pressure range from 725 to 7,250 psi, it is adaptable across diverse process system requirements. Constructed from brass or stainless steel and with multiple thread & electrical connection options, it supports customization for specific installations. The P50's robust electrical endurance and mechanical lifespan make it ideal for demanding industrial environments.

## Applications

- ✓ Industrial machinery
- ✓ Manufacturing equipment
- ✓ Automotive industry
- ✓ HVAC
- ✓ Refrigeration
- ✓ Water treatment
- ✓ Fluid management
- ✓ Heavy equipment
- ✓ Hydraulic compactors
- ✓ More

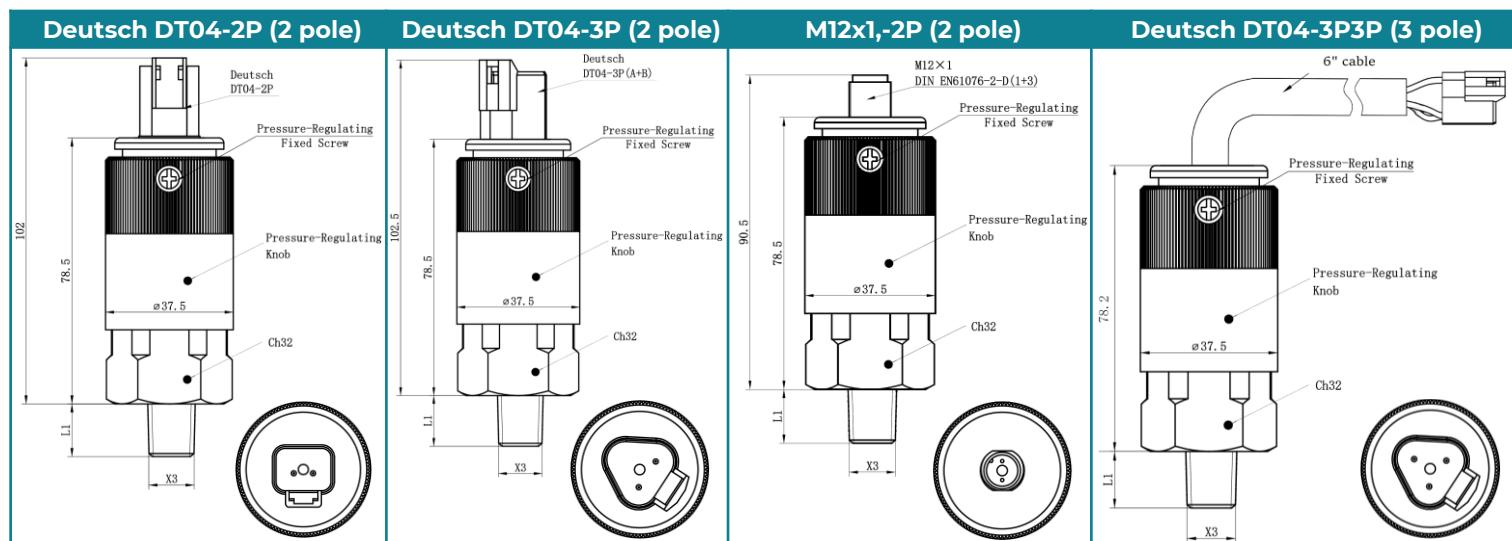
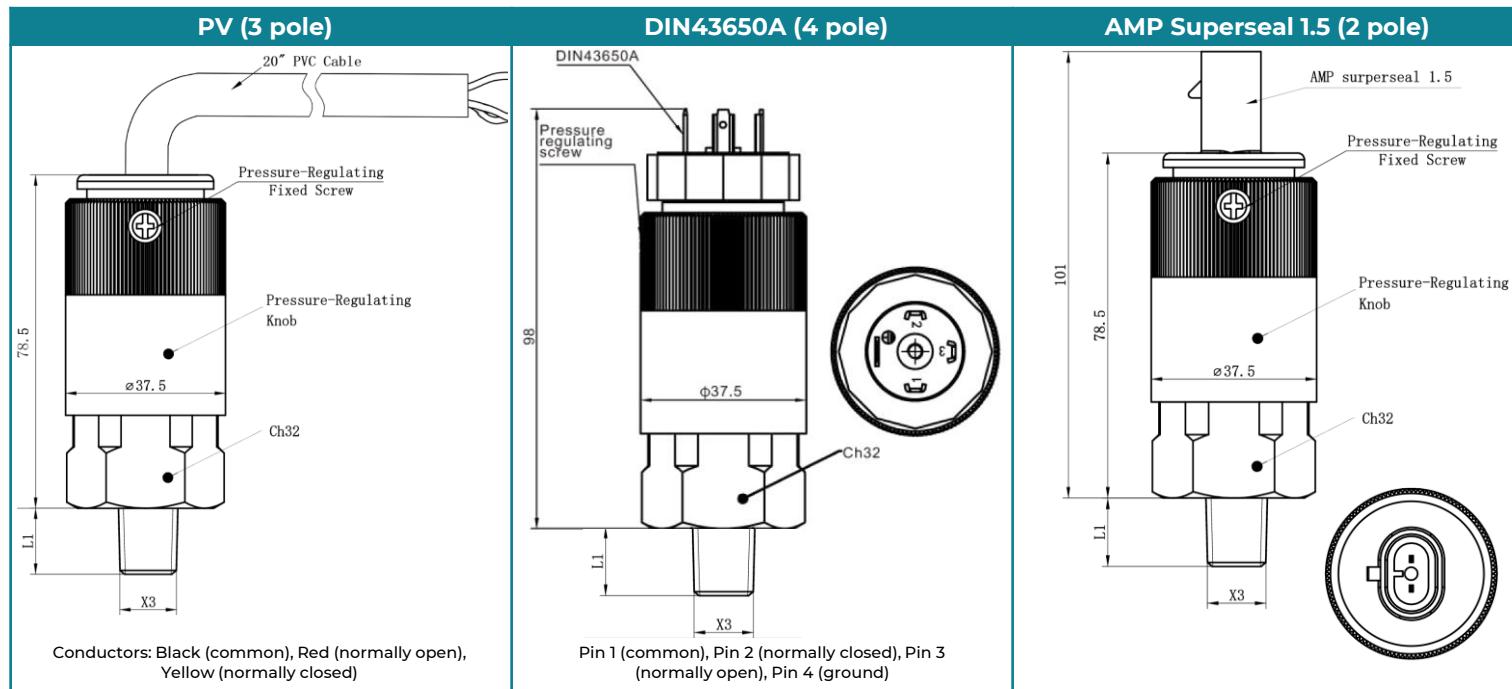
# Build Your Part Number

## Series P50

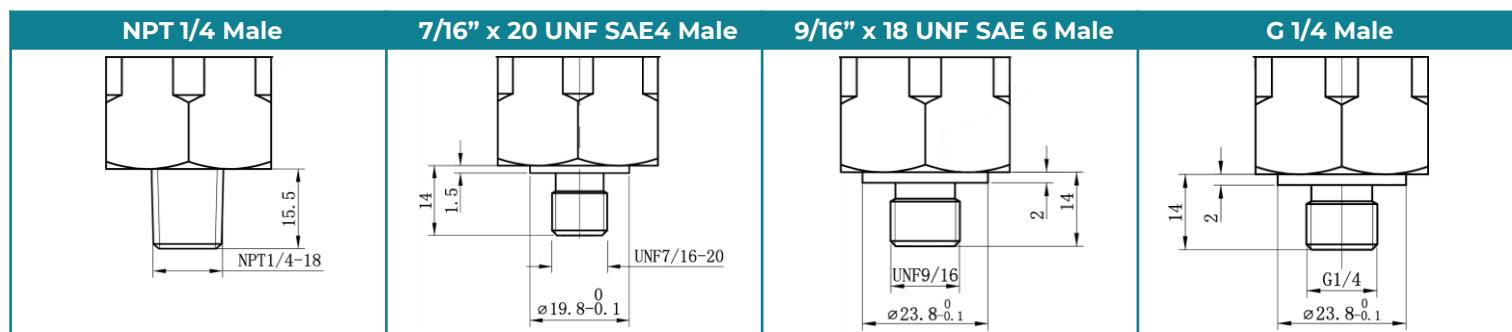
Example: P50CCSN15L6B3000R-PSE120

<b>Series</b>	
P50	
<b>Pressure Range - select one</b>	
PSI	Bar
A 725...2,900	50...200
B 1,450...4,350	100...300
C 2,900...7,250	200...500
<b>Contact Type- select one</b>	
A SPST normally open (electrical terminal options 6B, PV, AS, 6D, 6E, 6F)	
B SPST normally closed (electrical terminal options 6B, PV, AS, 6D, 6E, 6F)	
C SPDT change-over (electrical terminal options 6B, PV, 6G)	
<b>Body Material &amp; Wetted Pressure Port - select one</b>	
S Stainless Steel 304	
B Brass	
<b>Sealing Material - select one (applies to internally wetted parts and parallel threaded process ports)</b>	
N1 NBR (-30...+100°C) standard	
F1 FKM (-10...+120°C)	
H1 HNBR (-30...+120°C)	
E1 EPDM (-50...+130°C)	
<b>Process Port - select one</b>	
5A NPT 1/8" male (only for pressure ranges below 750 psi)	
5C NPT 1/4" male	
5G 7/16" x 20 UNF SAE4 male (ED ring seal included)	
5L 9/16" x 18 UNF SAE 6 male (ED ring seal included)	
5N G 1/4 Male (ED ring seal included)	
<b>Electrical Terminals - select one (see page 3)</b>	
6B DIN 43650A (IP65)	(SPDT, SPST normally open or normally closed; 4 pole)
PV 20" PVC non-shielded cable (IP67)	(SPDT, SPST normally open or normally closed; 3 conductor)
AS AMP Superseal 1.5 series, 2-pole (IP 67)	(SPST normally open or normally closed; 2 pole)
6D M12x1, 2-pole (IP67)	(SPST normally open or normally closed; 2 pole)
6E Deutsch DT04-2P (IP67)	(SPST normally open or normally closed; 2 pole)
6F Deutsch DT04-3P (IP67)	(SPST normally open or normally closed; Note: DT04-3P form factor, but only 2 poles)
6G Deutsch DT04-3P attached by shrink wrapped 6" leads (IP67)	(SPDT, SPST normally open or normally closed; 3 pole)
<b>Factory Setting - optional (leave blank if not desired)</b>	
XXX	ex: 950 = switch point at 950 psi; 3200 = switch point at 3200 psi
<b>Activation - select only when a factory setting is selected, otherwise leave blank</b>	
R	Set to switch on rising pressure
F	Set to switch on falling pressure
<b>Mating Electrical Connection Assembly - optional; will be quoted as a separate line item (leave blank if not desired)</b>	
PSE1	M12x1, 5 pole - straight with cable gland (field wireable)
PSE102	M12x1, 5 pole - straight with 1 meter PVC cable
PSE103	M12x1, 5 pole - straight with 3 meter PVC cable
PSE150	M12x1, 5 pole - straight with 1 meter PVC shielded cable
PSE151	M12x1, 5 pole - straight with 3 meter PVC shielded cable
PSE6	M12x1, 5 pole - 90° (field wireable)
PSE7	M12x1, 5 pole - 90° with 1 meter PUR shielded cable
PSE8	M12x1, 5 pole - 90° with 3 meter PUR shielded cable
PSE14	DIN 43650-A with cable gland (field wireable)
PSE120	DIN 43650-A with 1 meter PVC cable
PSE121	DIN 43650-A with 3 meter PVC cable
PSE17	DIN 43650-A with 1 meter PUR shielded cable
PSE18	DIN 43650-A with 3 meter PUR shielded cable
PSE19	DIN 43650-A with 1/2" NPT female (field wireable)
PSE132	Deutsch DTO4-2P with 1 meter PVC cable
PSE133	Deutsch DTO4-2P with 3 meter PVC cable
PSE138	Deutsch DTO4-3P with 1 meter PVC cable
PSE139	Deutsch DTO4-3P with 3 meter PVC cable

# Electrical Connections



## Process Ports

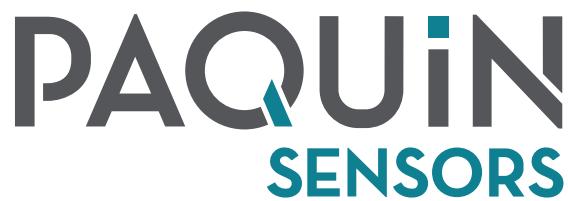


# Technical Parameters

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<b>Accuracy</b>	Switching Hysteresis (Differential)	10-20% of the set pressure (e.g. pressure setting 600psi, hysteresis 60-120psi)
	Repeatability Precision	1%
	Pressure Sensing Technology	Piston
	Switch Point	Factory set with field (user) adjustability
	Mechanical Life Endurance	1 million cycles
	Electric Life Endurance	50,000 cycles
<b>Electrical</b>	Max AC / Max DC	250VAC / 10Amp      30VDC / 4 Amp
	Output	SPST normally open SPST normally closed SPDT change-over
	Insulation Resistance & Dielectric Strength	10mΩ @ 1 min with 500VDC between all insulated inserts and plastic parts and maintain no alarm and breakdown phenomenon for one minute.
	Electrical Connections	DIN 43650-A with field wireable mating connector PVC cable 20" non shielded DT04 - 2 pole DT04 - 3 pole (Note: 3 pole form factor, but only 2 poles) Amp Super seal (please refer to TE Connectivity part# 282104-1 M12x1, 2 pole
<b>Environmental</b>	Over Pressure	11600 PSI (800 bar)
	Burst Pressure	14500 PSI (10000 bar)
	Max Vibration	10-60Hz, peak amplitude 0.15mm, acceleration 20m/s <sup>2</sup> , vibration duration 2 hours
	Operating Temperature	FKM      +14° ... 248°F (-10° ... 120°C) NBR      -22° ... 212°F (-30° ... 100°C) HNBR      -22° ... 248°F (-30° ... 120°C) EPDM      -58° ... 266°F (-50° ... 130°C)
	Ambient Temperature Range	-13°F ... 150°F (-25°C ... 66°C)
	Medium Temperature Range	-22°F ... 212°F (-30°C ... 100°C)
	Working Ambient Humidity	30% ... 80% Relative Humidity
	IP Protection	DIN 43650A Hirschmann with approved mating connector      IP65 All others      IP67
	Weight	~320g
	Body and Pressure Port	Stainless steel Brass
<b>Material</b>	Electrical Contacts	Silver cadmium alloy
	Wetted Internal Seals	Nitrile Rubber Buna (NBR), FKM, HNBR, EPDM
	Weight	~320g

# Additional Information



*Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.*

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