PAQUIN SENSORS

A Division of The Paquin Company™

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



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Build Your Part Number

Series P50

Example: P50CCSN15L6B3000R-PSE16

Series			
P50			
Pressure Range - select one			
PSI Bar			

Pre	Pressure Range - select one		
	PSI	Bar	
Α	7252,900	50200	
В	1,4504,350	100300	
С	2,9007,250	200500	

Co	Contact Type- select one		
Α	SPST normally open (electric	cal terminal options 6B, PV, AS, 6D, 6E, 6F)	
В	SPST normally closed (electric	cal terminal options 6B, PV, AS, 6D, 6E, 6F)	
С	SPDT change-over (electric	al terminal options 6B, PV, 6G)	
Во	Body Material & Wetted Pressure Port - select one		

S	Stainless Steel 304
В	Brass
Sea	aling Material - select one (applies to internally wetted parts and parallel threaded process ports)

Sea	Sealing Material - select one (applies to internally wetted parts and parallel threaded process ports)			
N1	NBR (-30+100°C) standard			
F1	FKM (-10+120°C)			
H1	HNBR (-30+120°C)			
E1	EPDM (-50+130°C)			

Pro	Process Port - select one				
5A	NPT 1/8" male (only for pressure ranges below 750 psi)				
5C	NPT ½" 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)				

Ele	Electrical Terminals - select one (see page 6)			
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)		
60	Doutsch DTO/, ZD attached with chrink wro	apped 6" loads (ID67) (SDDT SDST parmally open or parmally closed: 7 polo)		

Factory Setting - optional (leave blank if not desired)
XXX ex: 950 = switch point at 950 psi; 3200 = switch point at 3200 psi

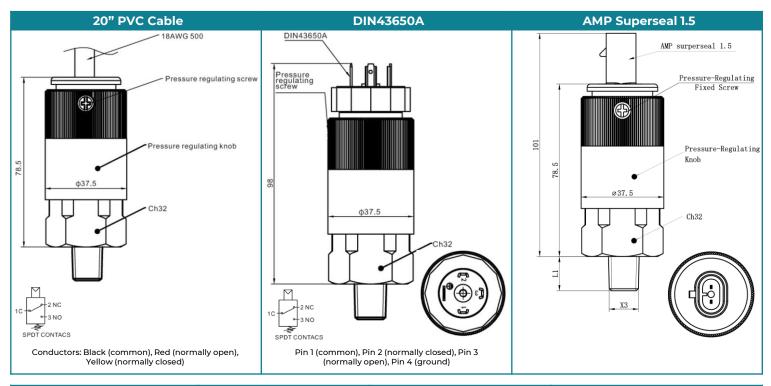
Act	Activation - optional (leave blank if not desired)		
R	Set to switch on rising pressure		
F	Set to switch on falling pressure		

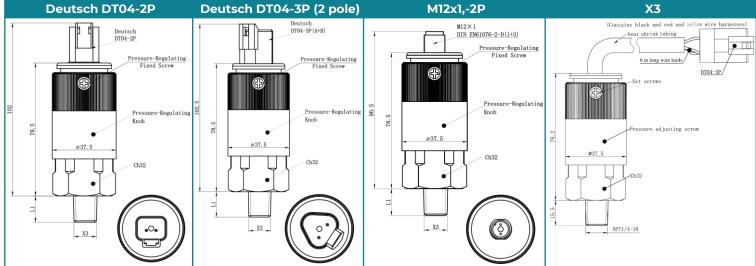
Mating Electrical Connection Assembly – optional; will be quoted as a separate line item (leave blank if not desired) PSEI M12x1, 5 pole – straight with cable gland (field wireable) PSE2 M12x1, 5 pole – straight with 1 meter PUR cable PSE3 M12x1, 5 pole – straight with 3 meter PUR shielded cable PSE4 M12x1, 5 pole – straight with 3 meter PUR shielded cable PSE5 M12x1, 5 pole – 90° (field wireable) PSE6 M12x1, 5 pole – 90° with 1 meter PUR shielded cable PSE7 M12x1, 5 pole – 90° with 3 meter PUR shielded cable PSE8 M12x1, 5 pole – 90° with 3 meter PUR shielded cable PSE14 DIN 43650-A with cable gland (field wireable) PSE15 DIN 43650-A with 1 meter PUR cable PSE16 DIN 43650-A with 3 meter PUR cable PSE17 DIN 43650-A with 3 meter PUR shielded cable PSE18 DIN 43650-A with 3 meter PUR shielded cable PSE19 DIN 43650-A with 1 meter PUR shielded cable PSE20 Deutsch DTO4-2P with 1 meter PUR cable PSE21 Deutsch DTO4-2P with 1 meter PUR cable PSE22 Deutsch DTO4-2P with 1 meter PUR cable	Madin	The strice I Comparties Assembly and and will be made to a second fire that the first desired
PSE2 M12x1, 5 pole - straight with 1 meter PUR cable PSE3 M12x1, 5 pole - straight with 3 meter PUR cable PSE4 M12x1, 5 pole - straight with 1 meter PUR shielded cable PSE5 M12x1, 5 pole - straight with 3 meter PUR 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 PSE8 M12x1, 5 pole - 90° with 3 meter PUR shielded cable PSE14 DIN 43650-A with cable gland (field wireable) PSE15 DIN 43650-A with 1 meter PUR cable PSE16 DIN 43650-A with 3 meter PUR cable PSE17 DIN 43650-A with 1 meter PUR shielded cable PSE18 DIN 43650-A with 1 meter PUR shielded cable PSE19 DIN 43650-A with 1/2" NPT female & cable gland (field wireable) PSE22 Deutsch DTO4-2P with 1 meter PUR cable PSE23 Deutsch DTO4-2P with 3 meter PUR cable	mating	g Electrical Connection Assembly – optional; will be quoted as a separate line item (leave blank if not desired)
M12x1, 5 pole - straight with 3 meter PUR cable PSE4 M12x1, 5 pole - straight with 1 meter PUR shielded cable PSE5 M12x1, 5 pole - straight with 3 meter PUR 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 PSE8 M12x1, 5 pole - 90° with 3 meter PUR shielded cable PSE14 DIN 43650-A with cable gland (field wireable) PSE15 DIN 43650-A with 1 meter PUR cable PSE16 DIN 43650-A with 3 meter PUR 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 & cable gland (field wireable) PSE22 Deutsch DTO4-2P with 1 meter PUR cable PSE23 Deutsch DTO4-2P with 3 meter PUR cable	PSE1	M12x1, 5 pole – straight with cable gland (field wireable)
PSE4 M12x1, 5 pole - straight with 1 meter PUR shielded cable PSE5 M12x1, 5 pole - straight with 3 meter PUR 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 PSE8 M12x1, 5 pole - 90° with 3 meter PUR shielded cable PSE14 DIN 43650-A with cable gland (field wireable) PSE15 DIN 43650-A with 1 meter PUR cable PSE16 DIN 43650-A with 3 meter PUR 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 & cable gland (field wireable) PSE22 Deutsch DTO4-2P with 1 meter PUR cable PSE23 Deutsch DTO4-2P with 3 meter PUR cable	PSE2	M12x1, 5 pole - straight with 1 meter PUR cable
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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) PSE15 DIN 43650-A with 1 meter PUR cable PSE16 DIN 43650-A with 3 meter PUR 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 & cable gland (field wireable) PSE22 Deutsch DTO4-2P with 1 meter PUR cable PSE23 Deutsch DTO4-2P with 3 meter PUR cable	PSE4	M12x1, 5 pole - straight with 1 meter PUR shielded cable
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PSE15 DIN 43650-A with 1 meter PUR cable PSE16 DIN 43650-A with 3 meter PUR 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 & cable gland (field wireable) PSE22 Deutsch DTO4-2P with 1 meter PUR cable PSE23 Deutsch DTO4-2P with 3 meter PUR cable	PSE8	M12x1, 5 pole - 90° with 3 meter PUR shielded cable
PSE16 DIN 43650-A with 3 meter PUR 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 & cable gland (field wireable) PSE22 Deutsch DTO4-2P with 1 meter PUR cable PSE23 Deutsch DTO4-2P with 3 meter PUR cable	PSE14	DIN 43650-A with cable gland (field wireable)
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PSE22 Deutsch DTO4-2P with 1 meter PUR cable PSE23 Deutsch DTO4-2P with 3 meter PUR cable	PSE18	DIN 43650-A with 3 meter PUR shielded cable
PSE23 Deutsch DTO4-2P with 3 meter PUR cable	PSE19	DIN 43650-A with 1/2" NPT female & cable gland (field wireable)
	PSE22	Deutsch DTO4-2P with 1 meter PUR cable
DCF3/ Davitach DTO/ 7D with 1 master DLD coble	PSE23	Deutsch DTO4-2P with 3 meter PUR cable
PSEZ4 Deutsch D104-3P with Theter POR capie	PSE24	Deutsch DTO4-3P with 1 meter PUR cable
PSE25 Deutsch DTO4-3P with 3 meter PUR cable	PSE25	Deutsch DTO4-3P with 3 meter PUR cable

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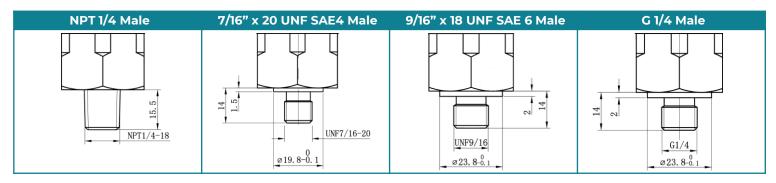
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Dimensions (mm)





Process Ports



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Technical Parameters

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Accuracy	Switching Hysteresis	10-20%	10-20% of the set pressure (e.g. pressure setting 600psi, hysteresis 60-120psi)			
	Repeatability Precision	1%				
	Switching Differential Parameters	Within 20% of switch point				
	Pressure Sensing Technology	Diaphra Piston	Diaphragm Piston			
	Switch Point	Factory	Factory set with field (user) adjustability			
	Mechanical Life Endurance	1 million cycles				
	Electric Life Endurance	50,000 cycles				
Electrical	Max AC / Max DC	250VAC	2/10Amp 30VDC	/ 4 Amp		
	Output	SPST normally open SPST normally closed SPDT change-over				
	Insulation Resistance & Dielectric Strength	10mΩ (1 min with 500VDC betwee	n all insulated inserts and plastic parts		
	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				
	Dielectric strength	and ins	When the resistance is $10~M\Omega$, add $500~VDC$ between the mutually insulated inserts and inserts and between the inserts and the plastic parts, and maintain no alarm and breakdown phenomenon for one minute. (View testing report for details)			
Environmental	Over Pressure	11600 PSI (800 bar)				
	Burst Pressure	14500 P	14500 PSI (10000 bar)			
	Max Vibration		10-60Hz, peak amplitude 0.15mm, acceleration 20m/s², vibration duration 2 hours			
	Operating Temperature	FKM				
		NBR	·			
		HNBR				
		EPDM				
	Ambient Temperature Range	-13°F ¹	-13°F 150.8°F (-25°C 66°C)			
	Medium Temperature Range		-4°F 212°F (-30°C 100°C)			
	Working Ambient Humidity		30% 80% Relative Humidity			
	IP Protection	DIN 43650A Hirschmann with approved mating connector				
		All othe	ers	IP67		
Material	Body and Pressure Port		Stainless steel Brass			
	Electrical Contacts	Silver cadmium alloy				
	Wetted Internal Seals	Nitrile Rubber Buna (NBR), FKM, HNBR, EPDM				
	Weight	~320g				

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Additional Information



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

We collaborate with our customers to match the best product technologies with your unique application requirements.

Please contact us or call +1 (800) 831-8217 anytime to discuss your needs!