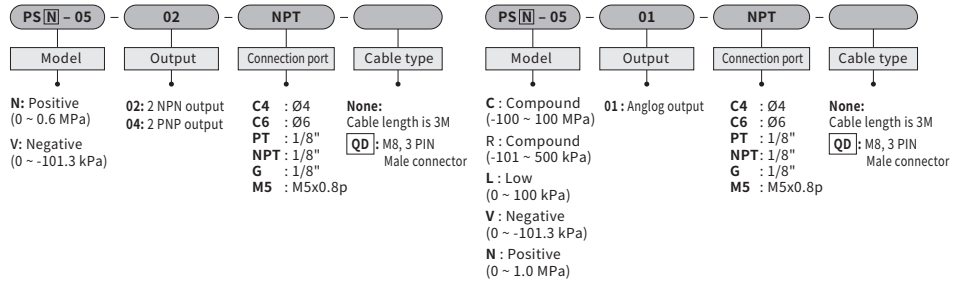


# PSN(V) - 05 series - Pressure Switch

CHELIC

## Code of Order



## Specification

Item	Model	PSV-05-02/04	PSN-05-02/04	PSC-05-01	PSL-05-01	PSV-05-01	PSR-05-01	PSN-05-01
Rated pressure range		0 ~ -101.3 kPa	0 ~ 0.6 MPa					
Set pressure range				-100 ~ 100 kPa	0 ~ 100 kPa	0 ~ -101.3 kPa	-101~ 500 kPa	0 ~ 1.0 MPa
Withstand pressure		0.6 MPa	1.5 MPa	0.2 MPa			1.5 MPa	
Applicable fluid		Filtered air, Non-corrosive/ Non-flammable gas						
Power supply voltage		10.8 to 30V DC(Included ripple value)			12 to 24V DC (5% Ripple ( P-P ))			
Load current		80mA max			-			
Internal voltage drop		NPN ≤ 0.8V, PNP ≤ 0.8V			-			
Current consumption		10mA max						
Switch output		NPN or PNP			-			
Analog output		-			1 ~ 5 V ±1% F. S./ Linearity ±0.5% F. S.			
Output short circuit protection		Yes			-			
Setting method		Adjusting by VR			-			
Response time		Approx. 1ms			-			
Repeatability		±1% F.S.			-			
Hysteresis		3% F.S. max			-			
Switch on Indicator		ON: Red indicator			-			
Enclosure		IP40						
Temperature characteristic		±3 % F.S. of detected pressure (25°C) at temp. Range of 0 ~ 50°C		±2 % F.S. of detected pressure (25°C) at temp. Range of 0 ~ 50°C				
Ambient temp. range		Operation: 0 ~ 60 °C, Storage: -20 ~ 70 °C (No condensation or freezing)		Operation: 0 ~ 50 °C, Storage: -20 ~ 70 °C (No condensation or freezing)				
Ambient humidity range		Operation/ Storage: 35 ~ 85 % RH (No condensation)						
Vibration		Total amplitude 1.5 mm or 10G, 10 Hz - 55 Hz - 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z						
Impact		980m/s <sup>2</sup> (100 G) × 3 times each in direction of X, Y and Z						
Connection port		C4, C6, PT, NPT, G, M5						
Lead wire		Ø2.6 Oil-resistance cable (0.15 mm <sup>2</sup> ) - 3 cores						
Weight (With 3 meter lead wire)		Approx. 50g						

## Circuit wiring diagrams

Internal circuit	PS □ -05-02	PS □ -05-04	PS □ -05-01
Characteristics			
Output	NPN open collector 30V 80 mA	PNP open collector 80 mA	-
Accuracy	Pressure range 1~10%		
Switch output	One		
Indicator light	Red indicator light (light up when output is on)		

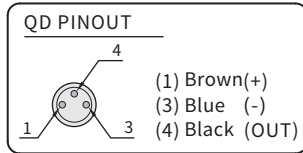
# PSN(V) - 05 series - Pressure Switch

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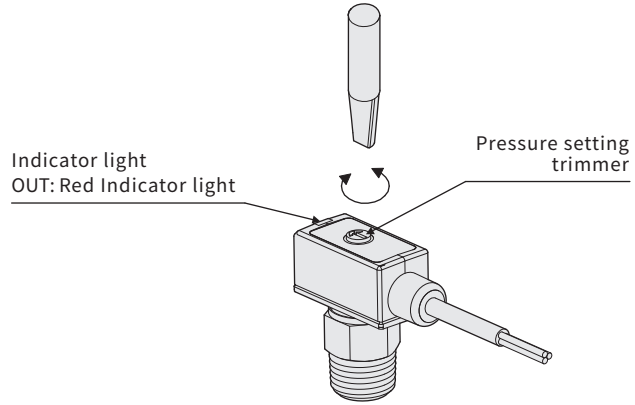
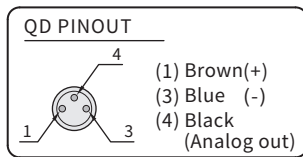
## Pressure setting

● PS □ - 05 - 02

● PS □ - 05 - 04



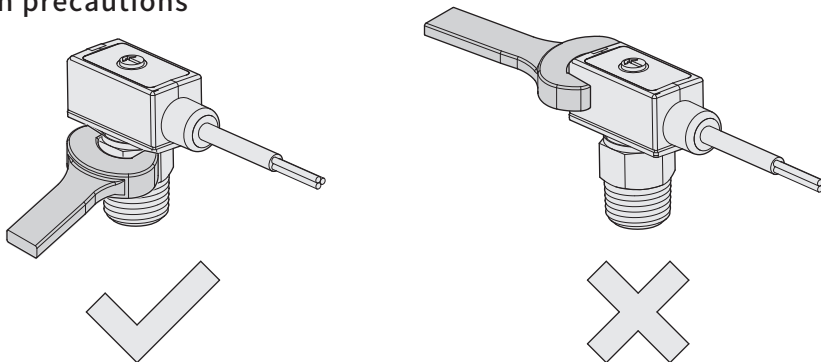
● PS □ - 05 - 01



## How to set pressure :

- Lock the pressure switch to the piping and adjust the pressure. When the indicator light up, it means finish setting.
- Use the pressure setting trimmer to set ON pressure. Rotate counter - clockwise to decrease pressure set point. On the other hand, rotate clockwise to increase pressure set point.
- Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments. To prevent damage to the pressure setting trimmer, do not force the trimmer when it comes to a stop.

## Installation precautions



- When mounting, always use the wrench on the metallic area near the pressure port . Never apply a wrench to the plastic body, it will damage the sensor.
- Over tightening may cause damages to the port thread, mounting bracket and pressure sensor. Under tightening may result loosen or leakage.
- Apply pressure and power after installation and make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.

PS-01

PS□-05

PS□-10

PS□-30

PS□-40

PS□-41

PS□-42

PS□-43

PS□-45

PS□-47

PS□-50

PS□-70

PS□-75

PS-400

PS-600

PS-800

PSS

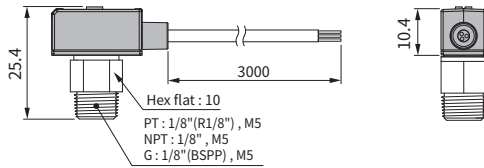
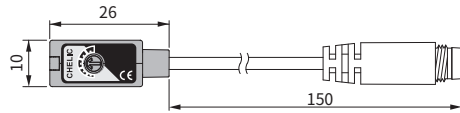
MCS-9D

# PSN(V) - 05 series - Pressure Switch

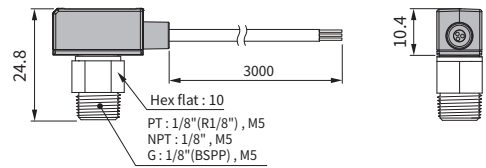
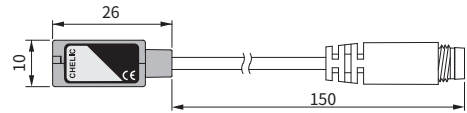
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## External dimensions

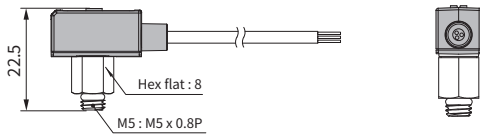
● PS □ - 05 - □ - □ - □



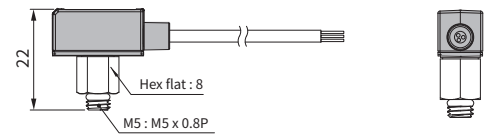
● PS □ - 05 - 01 - □



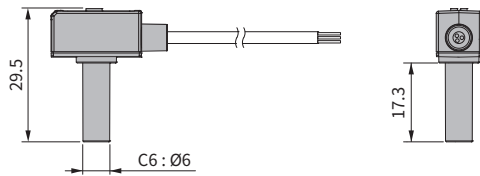
● PS □ - 05 - □ - M5 - □



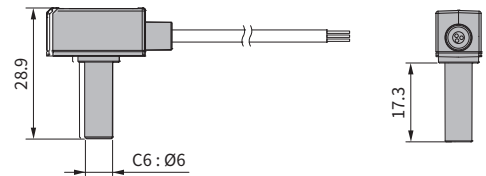
● PS □ - 05 - 01 - M5



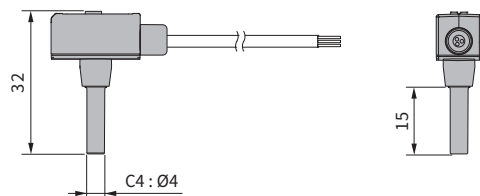
● PS □ - 05 - □ - C6 - □



● PS □ - 05 - 01 - C6



● PS □ - 05 - □ - C4 - □



● PS □ - 05 - 01 - C4

