

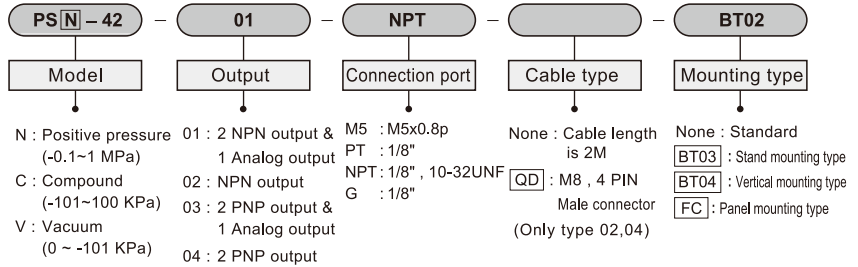
# PSN(C,V)-42 SERIES PRESSURE SWITCH (three colors)

Specification and order expression

**New**



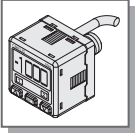
## How to order



## Specification

Item	Model	PSN - 42 (Positive pressure)	PSC - 42 (Compound)	PSV - 42 (Vacuum)
Rated pressure range		0.000 ~ 1.000 MPa	-100.0 ~ 100.0 KPa	0.0 ~ -101.3 KPa
Set pressure range / Rated pressure range		-0.100 ~ 1.000 MPa	-101.0 ~ 101.0 KPa	10.0 ~ -101.3 KPa
Withstanding pressure		1.5 rated pressure range		
Applicable fluid		Air , not corrode , Noncombustible		
Set pressure resolution	KPa	—		0.1
	MPa	0.001		—
	kgf/cm <sup>2</sup>	0.01		0.001
	bar	0.01		0.001
	psi	0.1		0.01
	inHg	—		0.1
	mmHg	—		1
Power supply voltage		12 to 24 VDC ±10% , ( Ripple ±10% or less )		
Current consumption		40 mA or less		
Switch output		The max. load output for NPN or PNP : 125 mA Max. load voltage : 30VDC , residual voltage : 1 V or less (with load current of 125 mA)		
Repeatability		± 0.2 % F.S. ± 1 digi or less		
Hysteresis	Hysteresis	Adjustable * 1		
	Window comparator model			
	Single point comparable model			
Reacting time		2.5 ms or less (chattering-proof function : 25ms,100ms,250ms,500ms,1000ms and 15000ms selections)		
Output short circuit protection		Yes		
Display		3 colors display ( Red, Green, Orange ) ( Sampling rate : 5 time / sec. )		
Indicator accuracy		± 0.2 % F.S. ± 1 digi or less (ambient temperature: 25 ± 3 °C)		
Indicator light		Orange LED 1 & 2 (OUT1 , OUT2)		
Analog output (only type 01,03)		Output voltage : 1~5V± 2.5 or less (within rated pressure range) Linearity : ± 1% F.S. or less	Output voltage : 1~5V± 5 or less (within rated pressure range) Linearity : ± 1% F.S. or less	Output voltage : 1~5V± 2.5 or less (within rated pressure range) Linearity : ± 1% F.S. or less
Environmental resistance	Enclosure	IP 40		
	Operating temperature range	Operating : 0 ~ 50 °C , Stored : -10 ~ 60 °C ( No freezing or condensation )		
	Operating humidity range	Operating and store : 35 ~ 85 % RH ( No freezing )		
	Withstand voltage	1000 VAC 1 minute ( between case and lead wire )		
	Insulation resistance	50 MΩ min ( 500 VDC ) ( between case and lead wire )		
	Vibration resistance	10~55 Hz at whichever is smaller of 1.5mm amplitude , in X , Y , Z directions , for 2 hours each		
Impact resistance	100 m/s <sup>2</sup> (100G) X , Y , Z directions , 3 times each			
Temperature characteristics		± 2 % F.S. or less ( based on 0 ~ 50 ° )		
Connection port		M5 : M5×0.8p ; PT : PT 1/8" ; NPT : NPT 1/8" ; 10-32UNF ; G : G 1/8"		
Cable type		oil-resistant cable (0.15 mm <sup>2</sup> )		
Weight		About 80 g (include 2 m cable) ; about 45 g (include M8 4PIN male connector)		

Note : \* 1. Single point comparable model and Window comparator model can adjust 1~8 digits hysteresis .



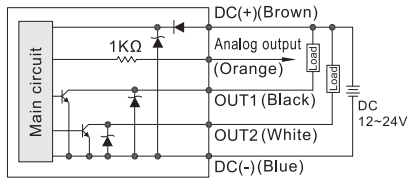
# PSN(C,V)-42 SERIES PRESSURE SWITCH



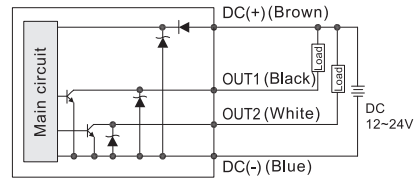
## External dimension and pressure setting

### Output circuit wiring graph

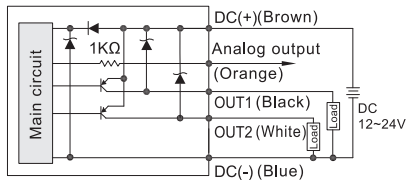
● PS □ - 42-01  
NPN output



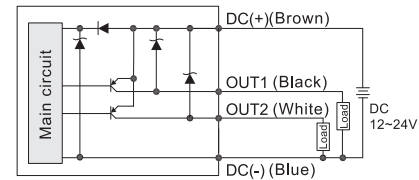
● PS □ - 42-02  
NPN output



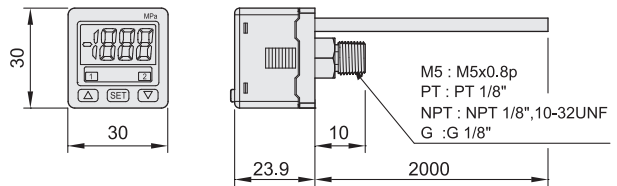
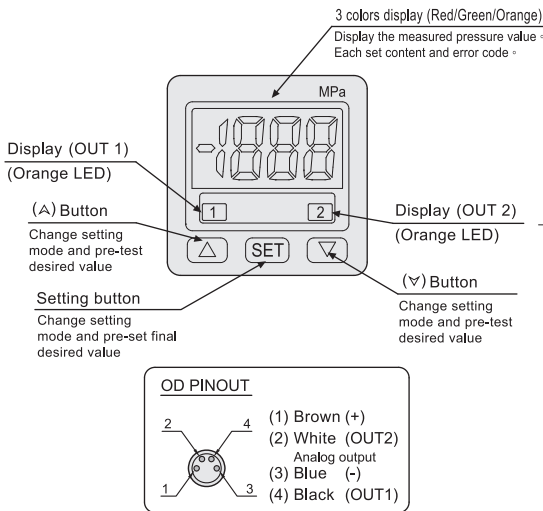
● PS □ - 42-03  
PNP output



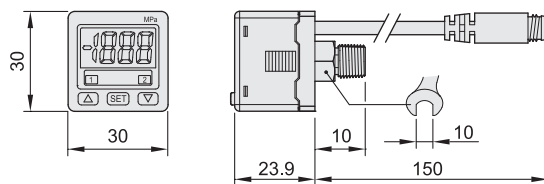
● PS □ - 42-04  
PNP output



### External dimension and panel instructions ● PS □ - 42 - □ - □

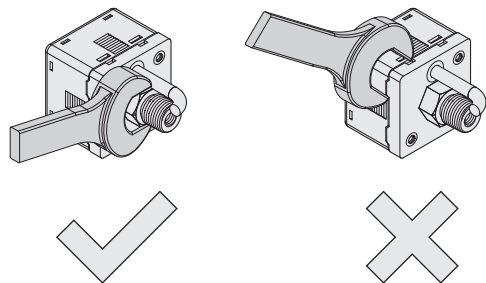


● PS □ - 42 - □ - □ - QD



### Installation

- When installing pressure switch, please use wrench to effort force and mount in metal section . Please do not use wrench to effort force and mount in plastic section to avoid damaged pressure switch .
- When metal section lock tightly , screws mounting bracket and pressure switch may damage . If metal section lock slackly , pressure switch may slide or leakage .
- After installation , it will put in fluid and electric to test operating and leakage to check installation is correct or not .



- CJ-M FLOAT JOINT
- M□V MANUALLY OPERATED VALVE
- SA □ SHOCK ABSORBER
- SHR HYDRAULIC REGULATOR
- SL □ SILENCER
- P □ S ROD EYE CLEVIS

- PS□-05 PRESSURE SWITCH
- PS□-10 PRESSURE SWITCH
- PS□-30 PRESSURE SWITCH
- PS□-40 PRESSURE SWITCH
- PS□-41 PRESSURE SWITCH
- PS□-42 PRESSURE SWITCH
- PS□-43 PRESSURE SWITCH