

For your safety, please read the following before using.

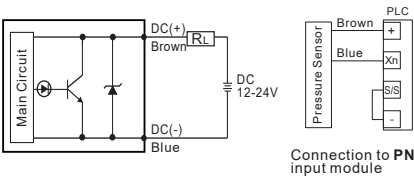
- ① Do not use corrosive or flammable gas or liquid with this product.
- ② Please use within the operating pressure range. Do not apply pressure beyond recommended maximum pressure, permanent damage to the pressure sensor may occur.
- ③ Do not drop, hit or allow excessive shock. Even if switch body appears undamaged, internal components may be broken and can cause malfunction.
- ④ Turn power off before connecting wiring. Wrong wiring or short circuit will damage and / or cause malfunction.
- ⑤ Do not use in environment containing steam or oil vapor.
- ⑥ This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- ⑦ Wiring for pressure sensor should avoid power source line and high voltage line. If use in the same circuit, noise may cause malfunction.
- ⑧ ESD protection ±4KV.

A. SPECIFICATIONS

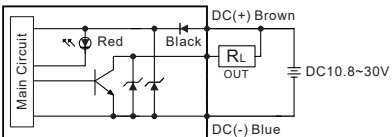
TYPE	MP10A	MP10B	MP10V-02/04	MP10P-02/04	MP10C-01	MP10L-01	MP10V-01	MP10R-01	MP10P-01
Rated pressure range	—		—		-100 ~ 100 kPa	0 ~ 100 kPa	0 ~ -101.3 kPa	-101 ~ 500 kPa	0 ~ 1.0 MPa
Set pressure range	-0.1 ~ 0.6 MPa		0 ~ -101.3 kPa	0 ~ 0.6 MPa	—				
Withstand pressure	1.5 MPa		0.6 MPa	1.5 MPa	0.2 MPa			1.5 MPa	
Fluid	Filtered Air, Non-corros / Non-flammable gas								
Power supply voltage	12 to 24V DC ±10% Ripple(P-P) 10% or less		10.8 to 30V DC (include ripple voltage)		12 to 24V DC (5% ripple voltage)				
Load current	5 ~ 40 mA		80 mA max.		—				
Leak current	≤ 1mA		—						
Internal voltage drop	≤ 5V		≤ 0.8V		—				
Current consumption	—		10 mA max.		10 mA max.				
Switch output	Present Press.≥ Set Press.:ON	Present Press.≥ Set Press.:OFF	NPN or PNP		—				
Analog output	—				1~5V ±1%F.S. / Linearity ±0.5%F.S.				
Output short circuit protection	None		Yes		—				
Setting method	Adjusting by VR				—				
Repeatability	±1% F.S.				—				
Response time	Approx. 1ms				—				
Hysteresis	≤ 4% F.S.		≤ 3% F.S. max.		—				
Switch on indicator	Indicator Red : ON				—				
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 1.5mm or 10G,10Hz - 55Hz - 10Hz scan for 1 minute, two hours each direction of X, Y and Z								
Shock	980m/s²(100G), 3 times each in direction of X, Y and Z								
Piping size	R4 : Ø4 mm ; R6 : Ø6 mm ; F1 : R1/8", M5 ; F2 : NPT1/8", M5 ; F3 : G 1/8"(BSPP), M5 ; M5 : M5*0.8								
Lead wire	Oil-resistance cable(0.18mm²), 2 wires , Ø2.6		Oil-resistance cable(0.18mm²), 3 wires , Ø2.6						
Weight	Approx. 50g (with 3 meter lead wire)								

C. CIRCUIT WIRING DIAGRAM

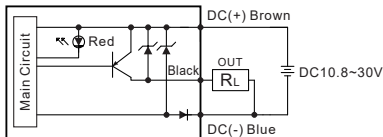
• MP10A / MP10B



• MP10□ -02/04
NPN

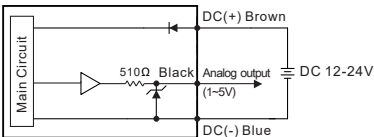


PNP



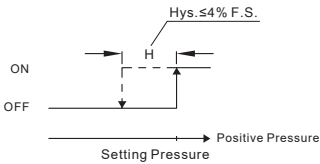
• MP10□ -01

Analog Output (1~5V)

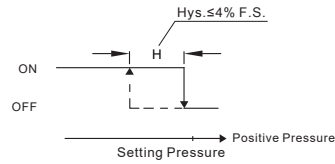


D. OUTPUT TYPE

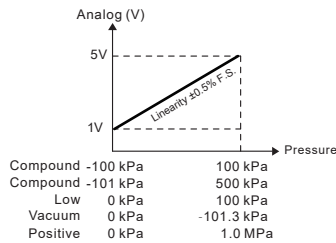
• MP10A / MP10B
MP10A



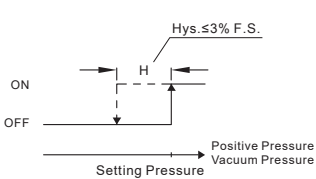
MP10B



• MP10□ -01

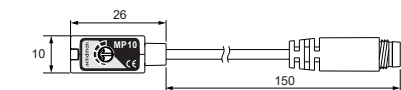


• MP10□ -02/04

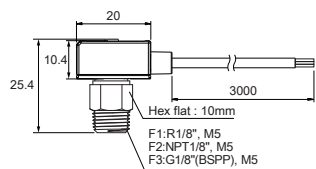


E. DIMENSIONS

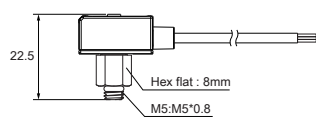
• MP10A / MP10B / MP10□ -02/04



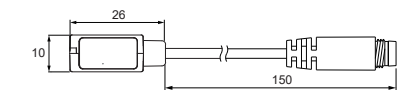
F1, F2, F3



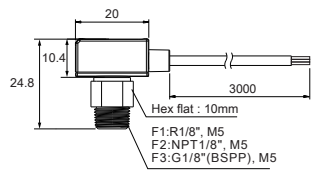
M5



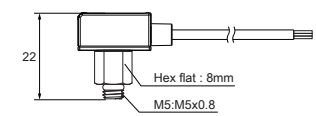
• MP10□ -01



F1, F2, F3

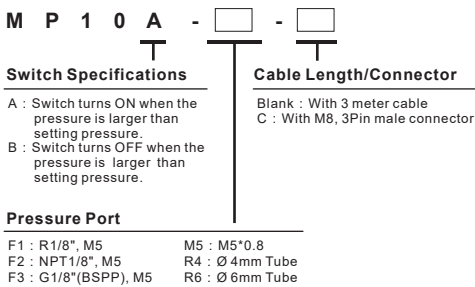


M5

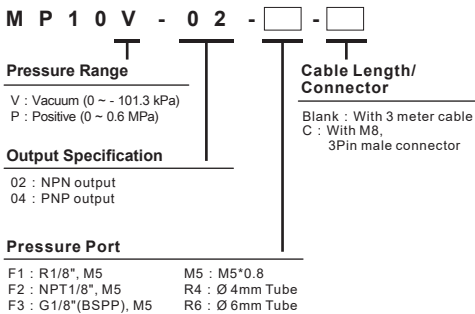


B. ORDERING INFORMATION

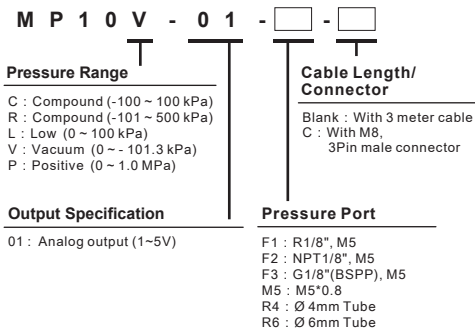
• MP10A / MP10B



• MP10□ -02/04



• MP10□ -01



F. HOW TO SET PRESSURE

- Use the pressure setting trimmer to set "ON" pressure. Rotate clockwise to increase pressure setpoint .
- Rotate counter-clockwise to decrease pressure setpoint .
- 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.

• MP10A / MP10B
Positive



• MP10□ -02/04
Positive & Vacuum

