MP1 series

PNEUMATIC PRESSURE SWITCH

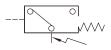




Features

- High Repeatability : $\leq \pm 1\%$ F.S.
- Quick response : 5ms.
- Hysteresis adjustable.
- Low cost.

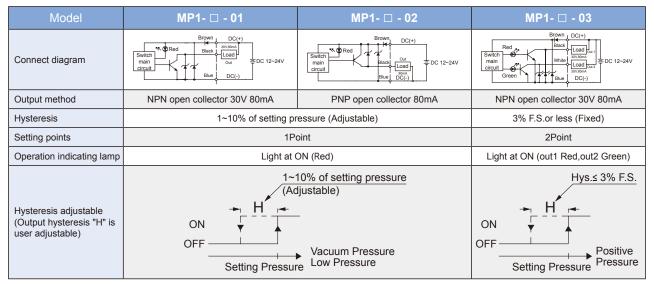
Symbol



Specification

Model		MP1-1 (Vacuum)	MP1-2 (Low pressure)	MP1-3 (Positive)
Operating /Setting pressure range		-101 to 0 kPa	0 to 100 kPa	0 to 1 MPa
Allowable pressure		300 kPa		1.5 MPa
Fluid		Filtered air, Non-corrosive/ Non-flammable gas		
Power supply voltage		12 to 24V DC ±10%, Ripple (P-P) 10% or less		
Response time		5ms or less		
Repeatability		±1% F.S.		
Current consumption		1 NPN or 1 PNP output: 21mA max., 2 NPN output: 35mA max.		
Environment	Enclosure	IP40		
	Ambient temp. range	Operation: 0 ~ 50°C, storage : -20 ~ 60°C (No condensation or freezing)		
	Ambient humidity range	Operation/ Storage: 35 ~ 85% RH (No condensation)		
	Withstand voltage	1000V AC in 1-min. (between case and lead wire)		
	Insulation resistance	50M Ω min. (at 500V DC, between case and lead wire)		
	Vibration	Total amplitude 1.5mm or 10G,10Hz-55Hz-10Hz scan for 1 minute, 2 hours each direction of X, Y and Z		
	Shock	980m/s 2 (100G), 3 times each in direction of X, Y and Z		
Temperature characteristic		\pm 3% F.S. of detected pressure (25°C) at temp. Range of 0~50°C		
Port size		R1/8",M5; NPT1/8",M5; G1/8",M5		
Lead wire		Oil-resistance cable (0.18mm ²)		
Weight		Approx. 50 g (with 1M lead wire)		

Output specification



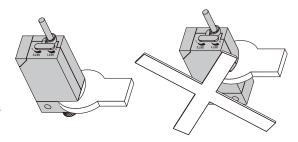


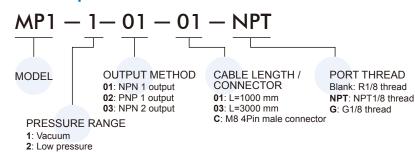
MP1 Order example PNEUMATIC PRESSURE SWITCH



- 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.

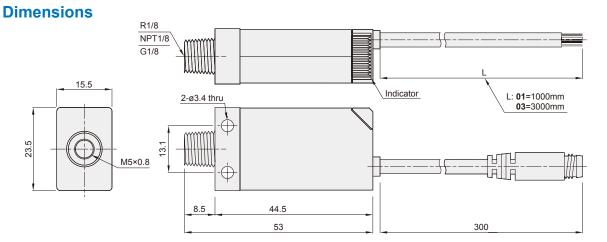
Order example

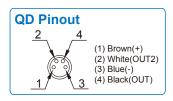




2: Low press 3: Positive

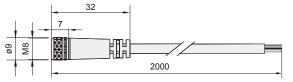
3: Positive





Optional part dimensions





Mounting accessories

