

MP1 series

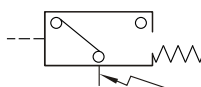
PNEUMATIC PRESSURE SWITCH



Features:

- High Repeatability : $\pm 1\%$ 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
Withstand pressure	500kPa		1.5MPa
Fluid	Air, Non-corrosive/Non-flammable gas		
Power supply voltage	12 to 24VDC $\pm 10\%$, Ripple (P-P) 10% or less		
Response time	5ms or less		
Repeatability	$\pm 1\%$ F.S.		
Current consumption	1output : NPN & PNP : 21mA MAX., 2 output : 25mA 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	1000VAC in 1-min (between case and lead wire)	
	Insulation resistance	50Mohm min. (at 500VDC M, between case and lead wire)	
	Vibration	Total amplitude 1.5mm, 10Hz-55Hz-10Hz scan for 1 minute, two 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. (Standard : 25 °C)		
Port size	1/8"PT, M5; 1/8"NPT, M5.		
Weight	50g(each including 1M lead wires)		

Output specification:

Model	MP1 - □ - 01	MP1 - □ - 02	MP1 - □ - 03
Connect diagram			
Output method	NPN open collector 30V 80mA	PNP open collector 80mA	NPN open collector 30V 80mA
Hysteresis	1~10% of setting pressure (Adjustable)		3% F.S. or less (Fixed)
Setting points	1Point		2Point
Operation indicating lamp	Light at ON (Red)		Light at ON (out1 Red, out2 Green)

Order example:

MP1 - 1 - 01 - 01 - NPT

MODEL

OUTPUT METHOD
01: NPN 1 output
02: PNP 1 output
03: NPN 2 output

PRESSURE RANGE
1: Vacuum
2: Low Pressure
3: Positive

THE LENGTH OF CABLE/FITTING TYPE
01: L=1000 mm
03: L=3000 mm
C: M8 male connector

PORT THREAD
Blank: PT thread
NPT: NPT thread

