Features

- 1 output (hysteresis adjustable)2 outputs
- Easy installation
- Response time: less than 5 ms





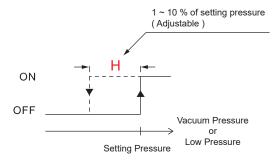




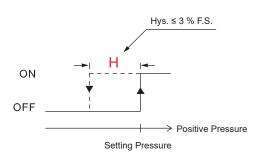
Features Highlight

1 Hysteresis Adjustable

Output hysteresis (H) is adjustable

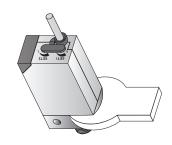


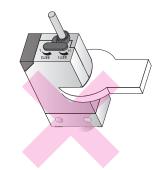
KP1 - □ - 03



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 damage to the port thread, mounting bracket and pressure sensor. Under tightening may result loosen or leakage.
- Apply air pressure and power after installation, make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.



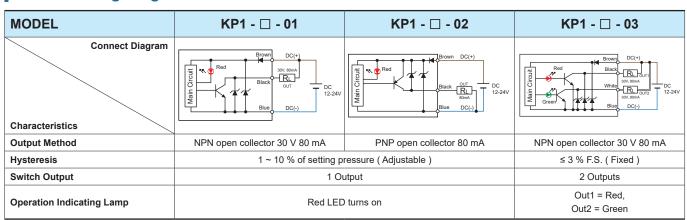




Specifications

MODEL		KP1-1	KP1-2	KP1-3
		Vacuum Pressure	Low Pressure	Positive Pressure
1 MPa —		_		
100 kPa — 0 -101 kPa —				
Set Pressure Range		-101 ~ 0 kPa	0 ~ 100 kPa	0 ~ 1 MPa
Withstand Pressure		300 kPa 1.5 MPa		
Fluid		Filtered air, Non-corrosive / Non-flammable gas		
Power Supply Voltage		12 ~ 24 V DC ± 10 %, Ripple (P-P) ≤ 10 %		
Current Consumption		1 NPN or 1 PNP output : ≤ 21 mA ; 2 NPN output : ≤ 35 mA		
Repeatability		± 1 % F.S.		
Response Time		≤ 5 ms		
Environment	Enclosure	IP40		
	Ambient Temp. Range	Operation : 0 \sim 50 °C ; storage : -20 \sim 60 °C (No condensation or freezing)		
	Ambient Humidity Range	Operation / Storage : 35 ~ 85 % RH (No condensation)		
	Withstand Voltage	1000 V AC in 1-min (between case and lead wire)		
	Insulation Resistance	≥ 50 MΩ (at 500 V DC, between case and lead wire)		
	Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz ~ 55 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z		
	Shock	980 m/s² (100 G), 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		PT: 1/8"PT (R1/8"), M5; NPT: NPT1/8", M5; G: G1/8" (BSPP), M5		
Lead Wire		Ø4 Oil-resistance cable (PVC) - 24 AWG (0.22 mm²) - 3 cores		
Weight (with 1 meter lead wire)		Approx. 50 g		

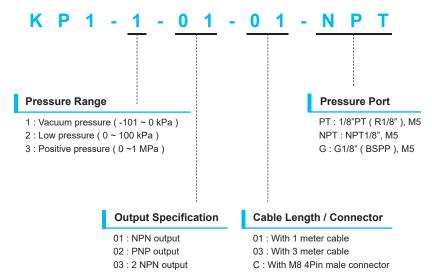
| Circuit Wiring Diagrams



SERIES

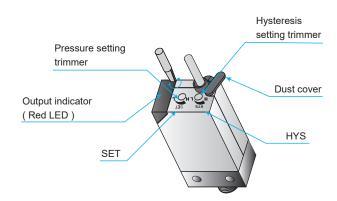
Tunable Hystersis Sensor

Ordering Information



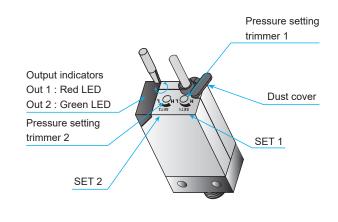
I How To Set Pressure

- **1** KP1 □ 01, 02
 - Remove dust cover to make adjustments to pressure value. Replace dust cover when finished to prevent foreign object from entering.
 - Pressure setting trimmer (SET) is for setting the output (ON) pressure. Rotate SET trimmer counterclockwise to increase (Pressure or Vacuum) the setting pressure (ON) point. Rotate clockwise to decrease the setting pressure.
 - Hysteresis setting trimmer (HYS) is for changing the hysteresis. Rotate trimmer counter-clockwise to increase the range 1 ~ 10 %.
 - Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments. Do not force the trimmer when it comes to a stop to prevent damage to the setting trimmer.



2 KP1 - □ - 03

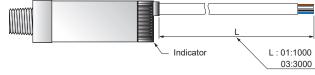
- Remove dust cover to make any adjustments. Replace dust cover when finished to prevent foreign object from entering.
- Pressure setting trimmer (SET 1, SET 2) is for setting the output (ON) pressure. Rotate SET trimmer counter-clockwise to increase (Pressure or Vacuum) the ON point. Rotate clockwise will decrease the setting pressure.
- Hysteresis for models with two outputs is 3 % fixed.

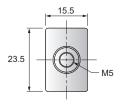


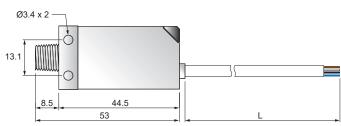


Dimensions

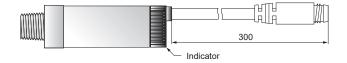
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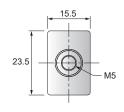


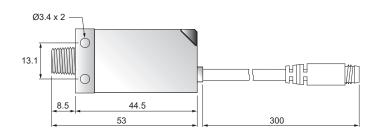




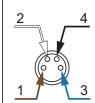
KP1 - □ - C - □







QD PINOUT



- (1) Brown (+)
- (2) White (OUT2)
- (3) Blue (-)
- (4) Black (OUT1)

Unit: mm