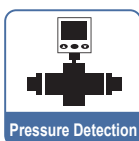
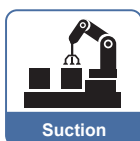


KP93 SERIES

Energy Saving Pressure Sensor

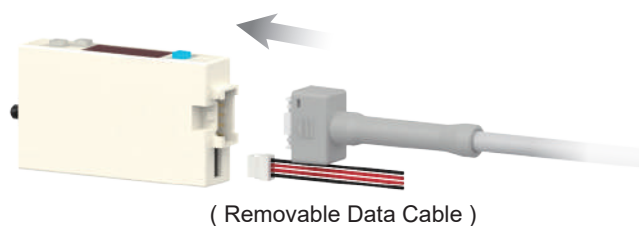
Features

- 1 output & 2 command control input
- Compact / Lightweight
- Simplified-wiring
- Digital pressure switch for vacuum
- Energy saving
- Programmable pressure unit :
kPa, kgf / cm², bar, psi, inHg, mmHg



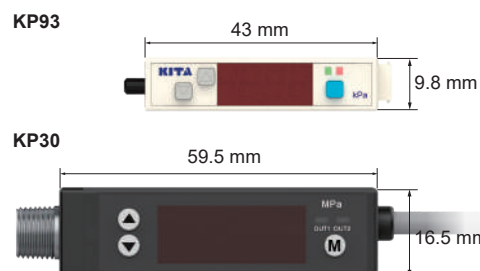
Features Highlight

1 Quick Installation



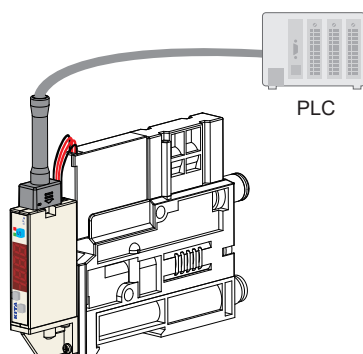
2 Compact Size

- Compared with KP30,
Volume : 50 % reduction
Weight : 20 % reduction

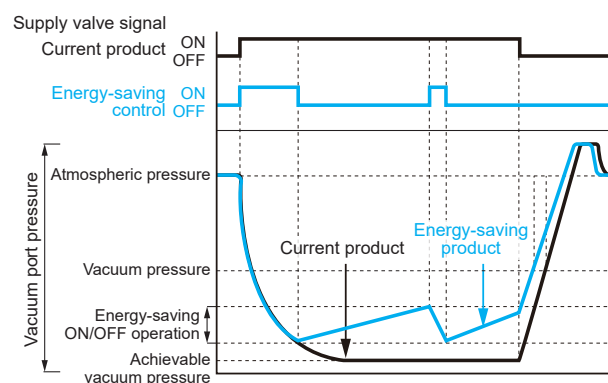


3 Simplified-wiring

- KP93 can directly control solenoid rather than connecting to PLC.



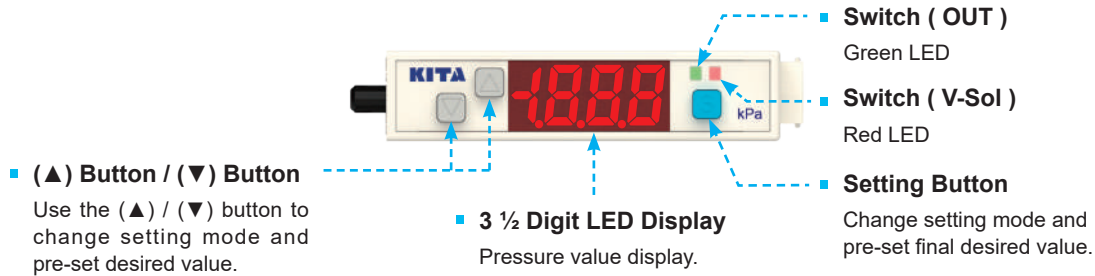
4 Energy Saving



Specifications

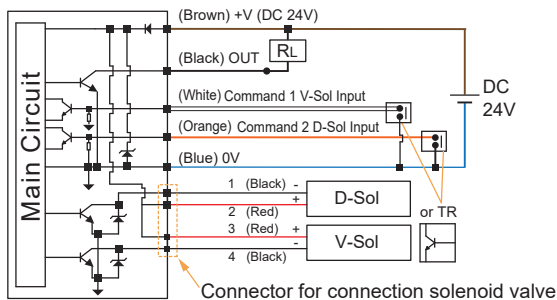
MODEL		KP93
1.000 MPa 105.0 kPa 0 -105.0 kPa 		
Rated Pressure Range		-100.0 ~ 100.0 kPa
Set Pressure Range		-105.0 ~ 105.0 kPa
Withstand Pressure		500 kPa
Fluid		Filtered air, Non-corrosive / Non-flammable gas
Set Pressure Resolution	kPa	0.1
	kgf / cm ²	0.001
	bar	0.001
	psi	0.01
	inHg	0.1
	mmHg	1
Power Supply Voltage		24 V DC ± 10 %, Ripple (P-P) ≤ 10 %
Current Consumption		≤ 40 mA (with no load)
Switch Output		NPN or PNP : open collector outputs Max. load current : 125 mA Max. supply voltage : 24 V DC Residual voltage : ≤ 1.5 V
Command Input		NPN type Low-voltage input (Reed or Solid state), Low level : ≤ 0.4 V DC, 10 ms or longer input PNP type High-voltage input (Reed or Solid state), High level : 20 ~ 24 V DC ,10 ms or longer input
Solenoid Valve Max Load Current		≤ 200 mA @ 24 V DC
Repeatability		± 0.2 % F.S. ± 1 digit
Switch Response Time		≤ 2.5 ms (chattering-proof function : 2.5 ms, 20 ms, 100 ms, 500 ms, 1000 ms and 1999 ms selectable)
Output Short Circuit Protection		OUT : Yes, D-Sol / V-Sol : None
Display		3 ½ digit, 7 segment LED display (Red) (Sampling rate : 5 times / sec.)
Indicator Accuracy		± 2 % F.S. ± 1 digit
Switch on Indicator		OUT : Green, Command 1 V-Sol output : Red
Environment	Enclosure	IP40
	Ambient Temp. Range	Operation : 0 ~ 50 °C ; Storage : -10 ~ 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 - 150 Hz - 10 Hz scan for 1 minute, two hours each direction of X, Y and Z
Shock		980 m/s ² (100 G), 3 times each in direction of X, Y and Z
Temperature Characteristic		± 2 % F.S. of detected pressure (25 °C) at temp. (Range of 0 ~ 50 °C)
Port Size		L : L Port ; M5 : M5 Port ; None
Lead Wire		Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm ²) - 5 cores
Weight (with 2 meter lead wire)		Approx. 58 g

Panel Description

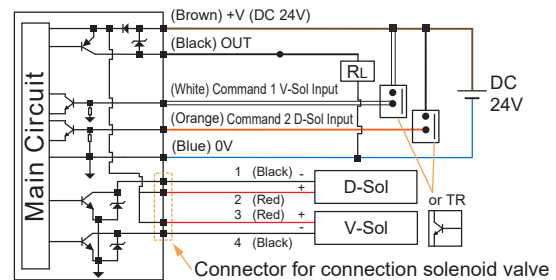


Output Circuit Wiring Diagrams

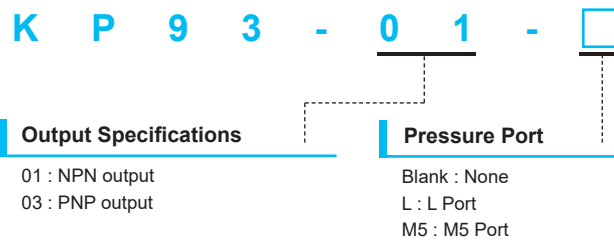
KP93 - 01 - □
NPN Output



KP93 - 03 - □
PNP Output

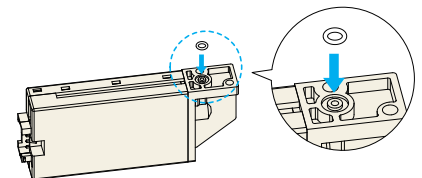
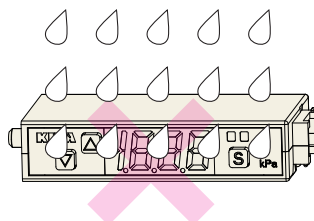
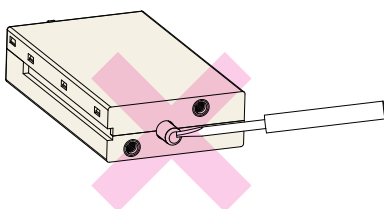


Ordering Information



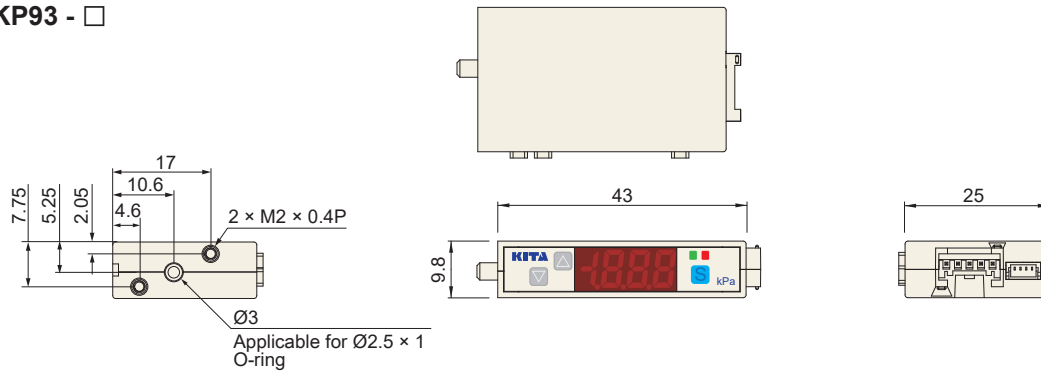
Installation Precautions

- Do not use a sharp tool to insert the pressure inlet to avoid damaging the sensor chip.
- Do not use the product in an environment that is exposed to the splash of water or dust. Otherwise failure or malfunction may occur.
- When installing, please add O-ring to prevent leaking.

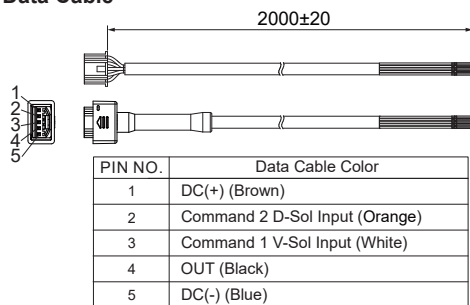


Dimensions

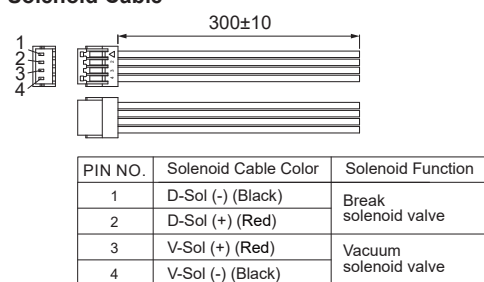
■ KP93 - □



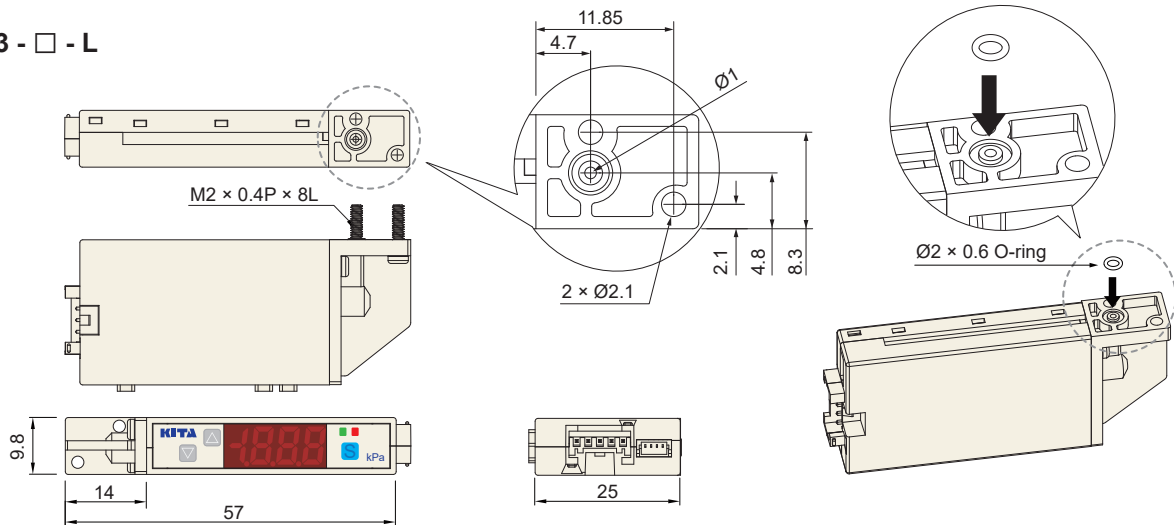
• Data Cable



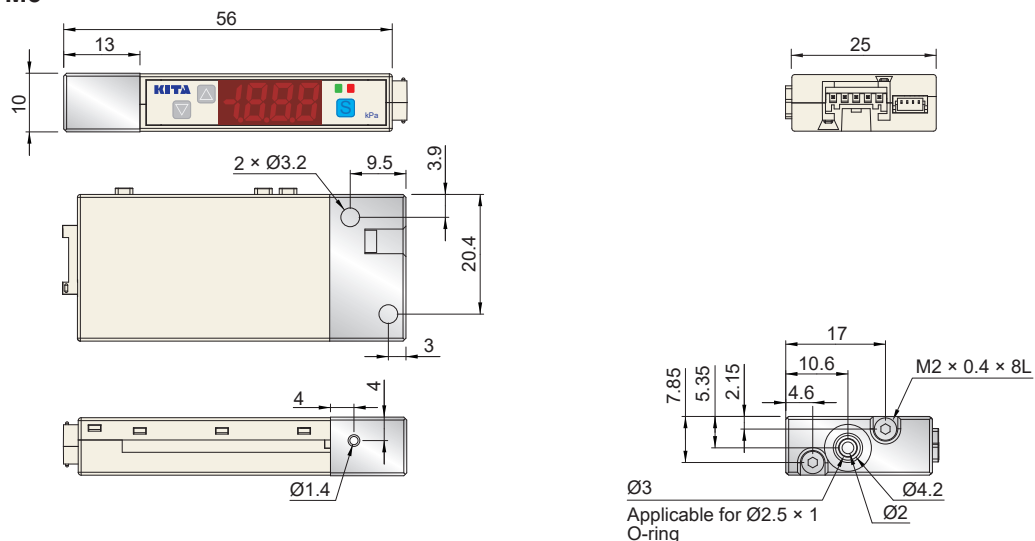
• Solenoid Cable



■ KP93 - □ - L



■ KP93 - □ - M5



單位：mm