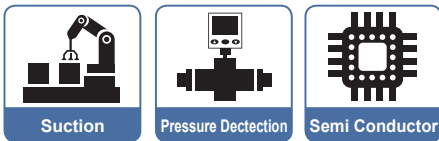


# KP10 SERIES

Compact Pressure Sensor  
- Analog Output

## Features

- Simple installation, plug-in port or thread-in fitting
- Compact size : 26 × 10 × 10.4 mm
- Rated pressure range :
  - Compound ( -100 ~ 100 kPa )
  - Compound ( -101 ~ 500 kPa )
  - Low ( 0 ~ 100 kPa )
  - Vacuum ( 0 ~ -101.3 kPa )
  - Positive ( 0 ~ 1.0 MPa )
  - Micro pressure S1 ( 0 ~ 10 kPa )
  - Micro pressure S2 ( 0 ~ 5 kPa )

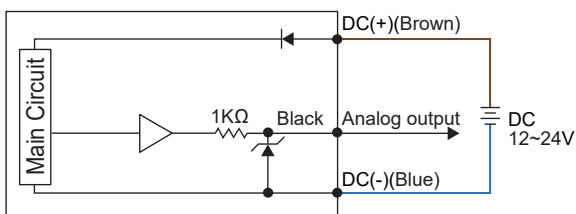


## Specifications

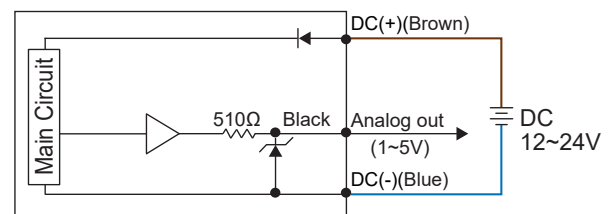
MODEL	KP10S1	KP10S2	KP10C-01	KP10L-01	KP10V-01	KP10R-01	KP10P-01
Rated Pressure Range	0 ~ 10 kPa	0 ~ 5 kPa	-100 ~ 100 kPa	0 ~ 100 kPa	0 ~ -101.3 kPa	-101 ~ 500 kPa	0 ~ 1.0 MPa
Withstand Pressure	20 kPa		0.2 MPa			1.5 MPa	
Fluid	Filtered air, Non-corrosive / Non-flammable gas						
Power Supply Voltage	12 to 24 V DC ( 5 % ripple voltage )						
Current Consumption	≤ 15 mA			≤ 10 mA			
Analog Output	1 ~ 5 V ± 1 % F. S. / Linearity ± 0.5 % F. S.		1 ~ 5 V ± 1 % F. S. / Linearity ± 0.5 % F. S.				
Enclosure	IP40						
Temperature Characteristic	± 3 % F.S. ( Range of 0 ~ 50 °C )			± 2 % F.S. ( Range of 0 ~ 50 °C )			
Ambient Temp. Range	Operation : 0 ~ 50 °C ( 32 ~ 122 °F ), Storage : -20 ~ 70 °C ( -4 ~ 158 °F ) ( No condensation or freezing )						
Ambient Humidity Range	Operation / Storage : 35 ~ 85% RH ( No condensation)						
Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz - 55 Hz - 10 Hz scan for 1 minute, two hours each direction of X, Y and Z						
Shock	980 m/s <sup>2</sup> ( 100 G ), 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 : G1/8" ( BSPP ) , M5 ; M5 : M5 * 0.8						
Lead Wire	Oil-resistance cable, 3 wires ( 0.18 mm <sup>2</sup> ), Ø 2.6 mm						
Weight ( with 3 meter lead wire )	Approx. 50 g						

## Circuit Wiring Diagrams

KP10S□ - 01 - □ - □  
Analog Output ( 1 ~ 5 V )

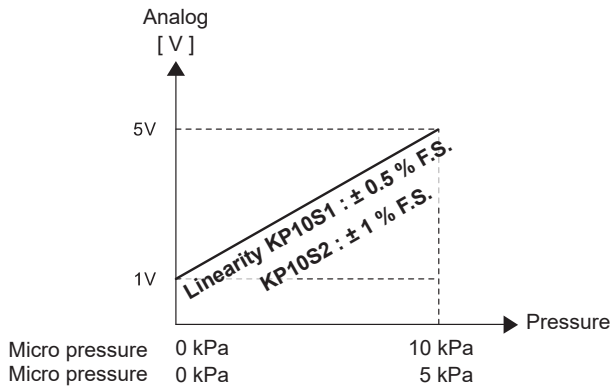


KP10□ - 01 - □ - □  
Analog Output ( 1 ~ 5 V )

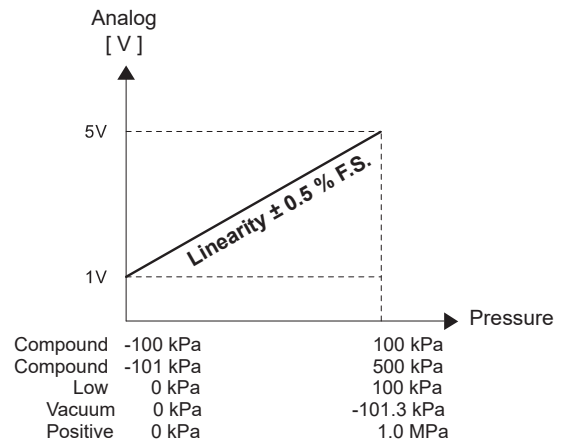


## Output Type

KP10□ - 01 - □ - □



KP10□ - 01 - □ - □



## Ordering Information

**K P 1 0 V - 0 1 - R 4 -**

### Pressure Range

C : Compound ( -100 ~ 100 kPa ) P : Positive ( 0 ~ 1.0 MPa )  
R : Compound ( -101 ~ 500 kPa ) S1 : Micro pressure ( 0 ~ 10 kPa )  
L : Low ( 0 ~ 100 kPa ) S2 : Micro pressure ( 0 ~ 5 kPa )  
V : Vacuum ( 0 ~ -101.3 kPa )

### Cable Length / Connector

Blank : With 3 meter cable  
C : With M8 3Pin male connector

### Output Specification

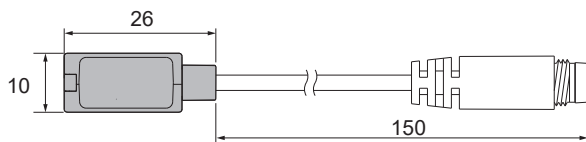
01 : Analog output  
( 1 ~ 5 V )

### Pressure Port

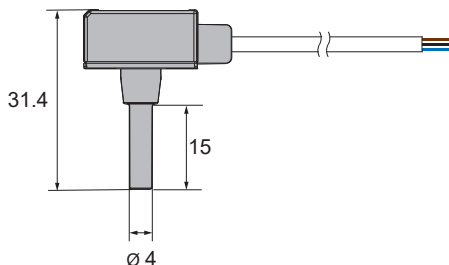
R4 : Ø4 mm      F2 : NPT1/8", M5  
R6 : Ø6 mm      F3 : G1/8" ( BSPP ), M5  
F1 : R1/8", M5      M5 : M5 \* 0.8

## Dimensions

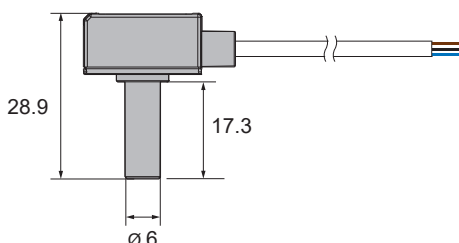
KP10□ - 01 - □ - C



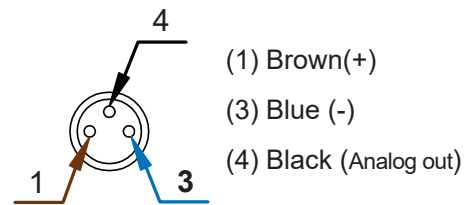
KP10□ - 01 - R4



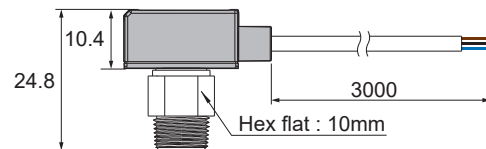
KP10□ - 01 - R6



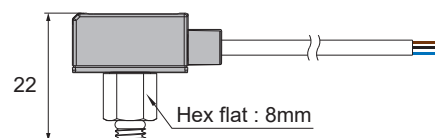
### QD PINOUT



KP10□ - 01 - F1, F2, F3



KP10□ - 01 - M5



Unit : mm