

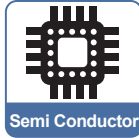
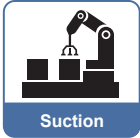
KP101 KP102

SERIES

Compact Pressure Sensor

Features

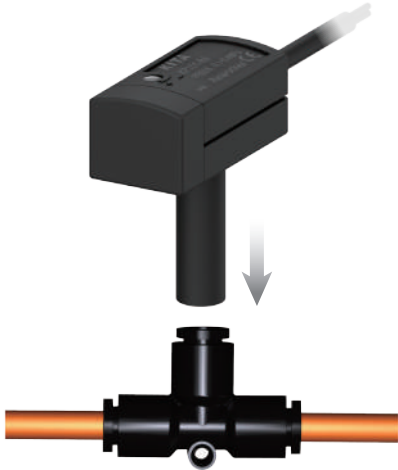
- Simple installation, plug-in port or thread-in fitting
- Set pressure range : -0.1 ~ 0.4 MPa
- Normally Open / Normally Close



Features Highlight

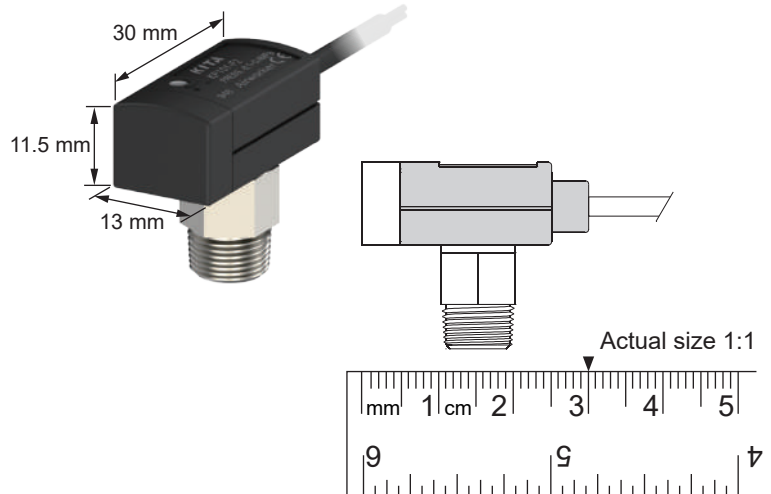
1 Simple Installation

- Plug-in port for push-to-connect fittings



2 Compact Size

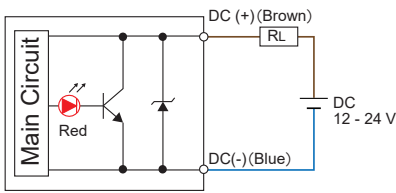
- Extremely compact size 30(L) × 13(W) × 11.5(H) mm to fit the most confined areas



Specifications

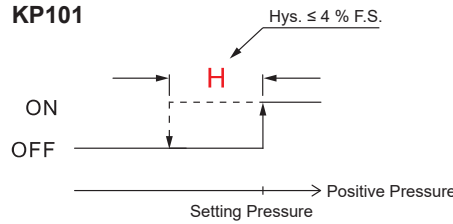
MODEL		KP101	KP102
	0.4 MPa		
	0		
	-0.1 MPa		
Set Pressure Range		- 0.1 ~ 0.4 MPa	
Withstand Pressure		1 MPa	
Fluid		Filtered air, Non-corrosive / Non-flammable gas	
Power Supply Voltage		12 ~ 24 V DC ± 10 %, Ripple (P-P) ≤ 10 %	
Load Current		5 ~ 40 mA	
Leak Current		≤ 1 mA	
Internal Voltage Drop		≤ 5 V	
Switch Output		Present Press. ≥ Set Press. : ON	Present Press. ≥ Set Press. : OFF
Response Time		Approx. 1 ms	
Repeatability		± 1 % F.S.	
Hysteresis		≤ 4 % F.S.	
Switch on Indicator		Indicator Red : ON	
Environment	Enclosure	IP40	
	Ambient Temp. Range	Operation : 0 ~ 60 °C (No condensation or freezing)	
Temperature Characteristic		± 3 % F.S. of detected pressure (25 °C) at temp. (Range of 0 ~ 50 °C)	
Piping Size		R6 : Ø6 mm ; F1 : R1/8" , M5 ; F2 : NPT1/8" , M5 ; F3 : G1/8" (BSPP) , M5 ; M5 : M5 * 0.8	
Lead Wire		Ø2.6 Oil-resistance cable (PVC) - 24 AWG (0.22 mm ²) - 2 cores	
Weight (with 2 meter lead wire)		Approx. 38 g	

Circuit Wiring Diagram

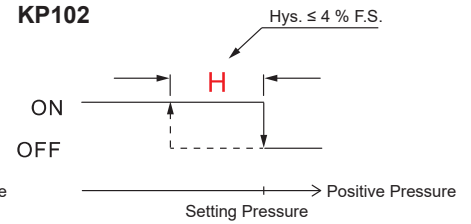


Output Type

KP101



KP102



Ordering Information

K P 1 0 1 - F 1 - []

Sensor Specification

- 101 : Switch turns ON when the pressure is larger than setting pressure.
- 102 : Switch turns OFF when the pressure is larger than setting pressure.

Pressure Port

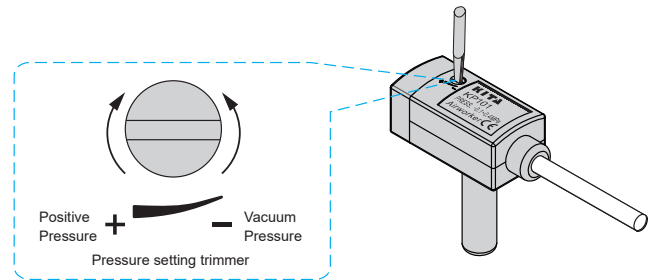
- R6 : Ø6 mm
- F3 : G1/8" (BSPP), M5
- F1 : R1/8", M5
- M5 : M5 * 0.8
- F2 : NPT1/8", M5

Cable Length / Connector

- Blank : With 2 meter cable
- C : With M8 3Pin male connector

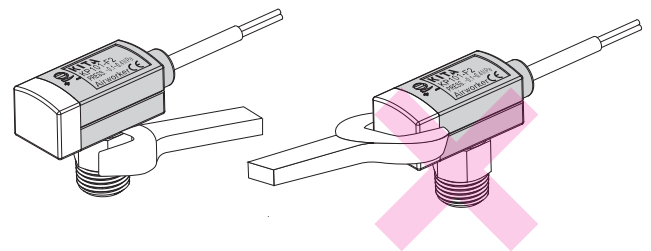
How to Set Pressure

- Use the pressure setting trimmer to set "ON" pressure. Rotate clockwise to increase pressure setpoint (or to decrease vacuum setpoint). Rotate counter-clockwise to decrease pressure setpoint (or to increase vacuum setpoint).
- Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments. To prevent damage to the pressure setting trimmer, DO NOT force the trimmer when it comes to a stop.

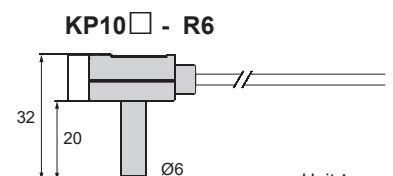
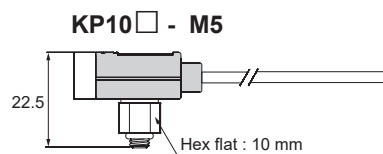
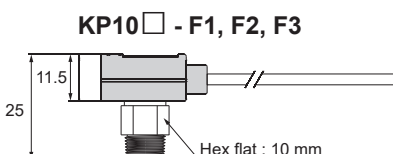
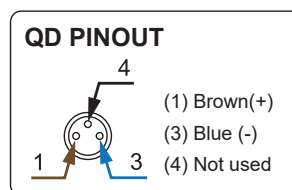
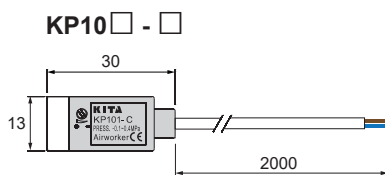


Installation Precautions

- 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.



Dimensions



Unit : mm