

For your safety, please read the following before using.

- ① Do not use corrosive or flammable gas or liquid with this product.
- ② Please use within the operating pressure range. Do not apply pressure beyond recommended maximum pressure, permanent damage to the pressure sensor may occur.
- ③ Do not drop, hit or allow excessive shock. Even if switch body appears undamaged, internal components may be broken and can cause malfunction.
- ④ Turn power off before connecting wiring. Wrong wiring or short circuit will damage and/or cause malfunction.
- ⑤ Do not use in environment containing steam or oil vapor.
- ⑥ This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- ⑦ Wiring for pressure switch should avoid power source line and high voltage line. If use in the same circuit, noise may cause malfunction.
- ⑧ ESD protection ±4KV.

A. SPECIFICATIONS	KP10A	KP10B
Set pressure range	-0.1 ~ 0.6 MPa	
Withstand pressure	1.5 MPa	
Fluid	Air, Non-corrosive/Non-flammable gas	
Load voltage	12 to 24V DC ±10%, Ripple (P-P) 10% or less	
Load current	5~40mA	
Leak current	≤1mA	
Internal voltage drop	≤5V	
Switch output	Present Press. ≥Set Press.:ON	Present Press. ≥Set Press.:OFF
Repeatability	±1% F.S.	
Response time	Approx. 1ms	
Hysteresis	≤4% F.S.	
Indicator	Indicator Red : ON	
Enclosure	IP 40	
Temperature characteristic	±3% F.S. of detected pressure (25°C) at temp. Range of 0~50 °c	
Ambient temp. range	Operation: 0 ~ 60°C , Storage: -20 ~ 70°C (No condensation or freezing)	
Ambient humidity range	Operation / Storage: 35 ~ 85% RH (No condensation)	
Vibration	Total amplitude 1.5mm or 10G, 10Hz ~ 55Hz ~10Hz scan for 1 minute, two hours each direction of X, Y and Z	
Shock	980 m/s ² (100G), 3 times each in direction of X, Y and Z	
Piping size	F1 : R1/8",M5 ; F2 : NPT1/8",M5 ; F3 : G1/8"(BSPP),M5 ; M5 : M5*0.8 ; R4 : Ø4mm ; R6 : Ø6mm	
Lead wire	Oil-resistance cable, 2 wires (0.18mm ²), Ø2.6	
Weight	Approx. 50g (with 3 meter lead wire)	

B. ORDERING INFORMATION

K P 1 0 A - [] - []

Switch Specifications

- 10A : Switch turns ON when the pressure is larger than setting pressure.
- 10B : Switch turns OFF when the pressure is larger than setting pressure.

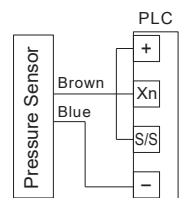
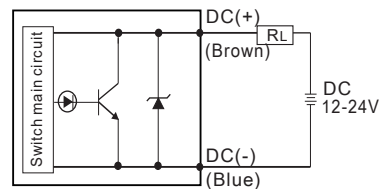
Pressure Port

- F1 : R1/8", M5
- F2 : NPT1/8", M5
- F3 : G1/8"(BSPP), M5
- M5 : M5*0.8
- R4 : Ø4mm Tube
- R6 : Ø6mm Tube

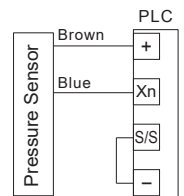
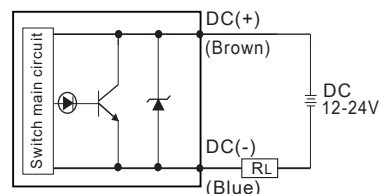
Cable Length/Connector

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

C. CIRCUIT WIRING DIAGRAM

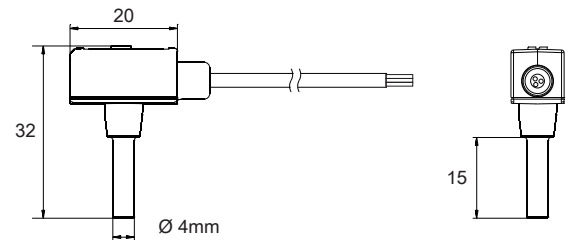
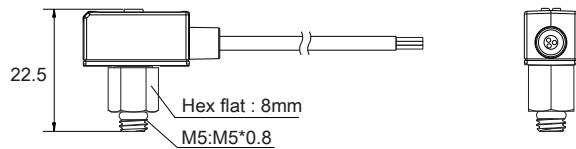
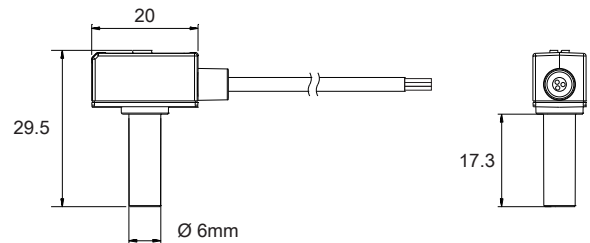
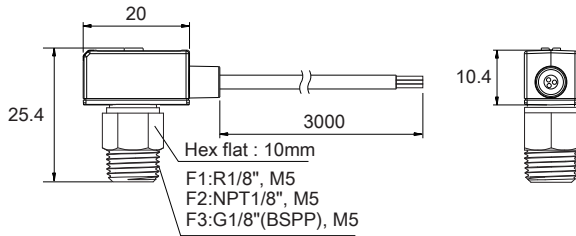
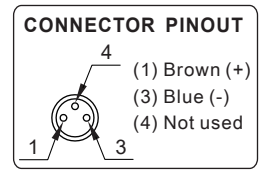
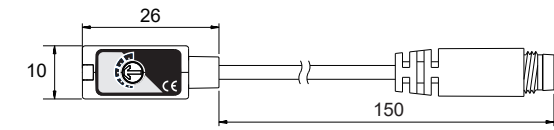


Connection to NPN input module



Connection to PNP input module

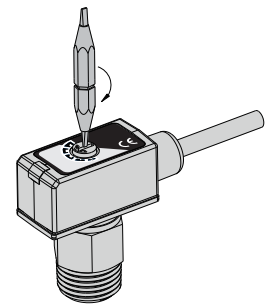
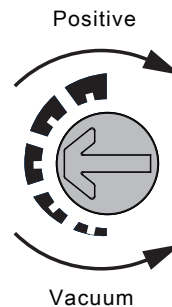
D. DIMENSIONS



Unit:mm

E. HOW TO SET PRESSURE

- Use the Pressure setting trimmer to set "ON" pressure. Rotate clockwise to increase pressure setpoint. Rotate counter-clockwise to decrease pressure 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.



F. OUTPUT TYPE

