

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 setting 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 sensor should avoid power source line and high voltage line. If use in the same circuit, noise may cause malfunction.
- ⑧ ESD protection $\pm 4KV$.
- ⑨ Sensors at end-of-life must be disposed of in accordance with E-Waste regulations of the country/region, NOT disposed of with regular garbage.

A SPECIFICATIONS

MODEL		KP10A	KP10B
Set pressure range		-0.1 ~ 0.6 MPa	
Withstand pressure		1.5 MPa	
Fluid		Filtered air, Non-corrosive/Non-flammable gas	
Power supply voltage		12 ~ 24V DC $\pm 10\%$ Ripple (P-P) $\leq 10\%$	
Load current		5 ~ 40mA	
Internal voltage drop		$\leq 5V$	
Leak current		$\leq 1mA$	
Switch output		Present Press. \geq Set Press.:ON	Present Press. \geq Set Press.:OFF
Output short circuit protection		No	
Setting method		Adjusting by VR	
Repeatability		$\pm 1\%$ F.S.	
Hysteresis		$\leq 4\%$ F.S.	
Response time		Approx. 1 ms	
Switch on indicator		Red indicator : ON	
Environment	Enclosure	IP40	
	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 1.5 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/s ² (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)	
Piping size		R4 : $\varnothing 4mm$; R6 : $\varnothing 6mm$; F1 : R1/8",M5 ; F2 : NPT1/8",M5 ; F3 : G1/8"(BSPP) ,M5 ; M5 : M5*0.8	
Lead wire		$\varnothing 2.6$ Oil-resistance cable (PVC) - 24 AWG (0.22 mm ²) - 2 cores	
Weight (with 3 meter lead wire)		Approx. 50 g	

B ORDERING INFORMATION

K P 1 0 **A** - -

Switch Specifications

A : Switch turns ON when the pressure is larger than setting pressure.

B : Switch turns OFF when the pressure is larger than setting pressure.

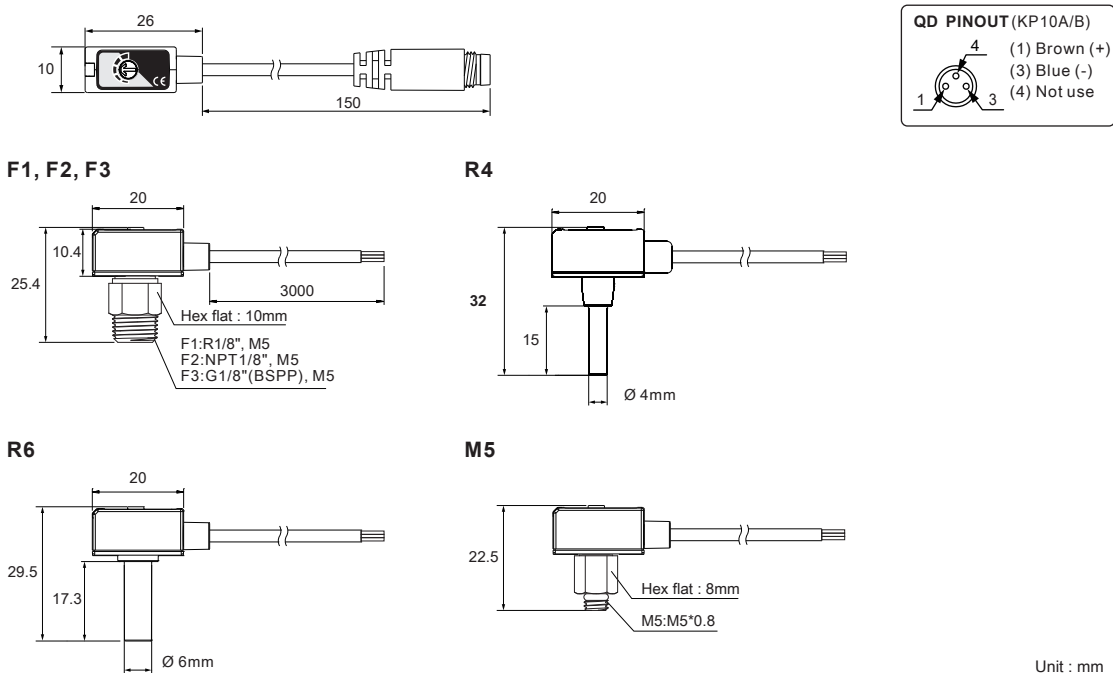
Pressure Port

F1 : R1/8", M5	M5 : M5*0.8
F2 : NPT1/8", M5	R4 : Ø 4mm Tube
F3 : G1/8"(BSP), M5	R6 : Ø 6mm Tube

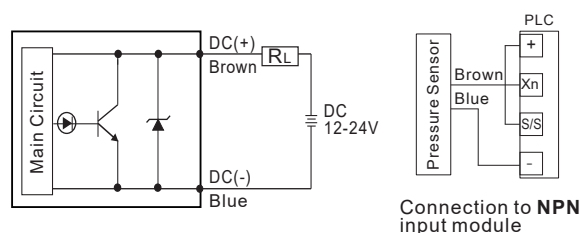
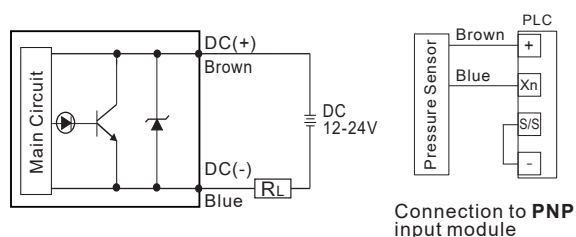
Cable Length/Connector

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

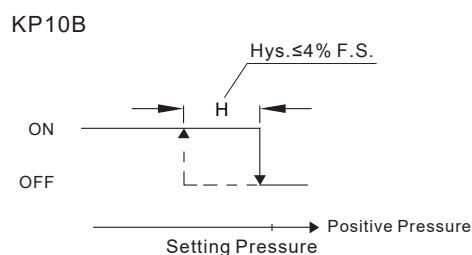
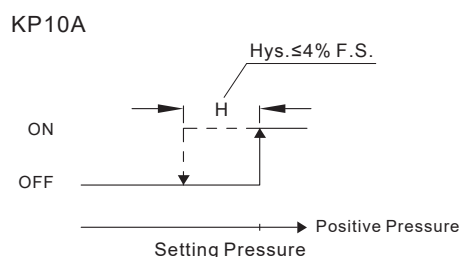
C DIMENSIONS



D CIRCUIT WIRING DIAGRAM



E OUTPUT TYPE



F 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.

