

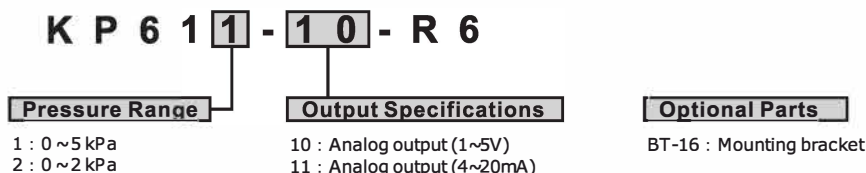
For your safety, please read the following before using.

- 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 If using the product to detect very small pressure rates, warm up the product for 20 to 30 minutes first. There will be a drift on the analogue output of approximate $\pm 1\%$ immediately after the power supply is turned on, within 10 minutes.

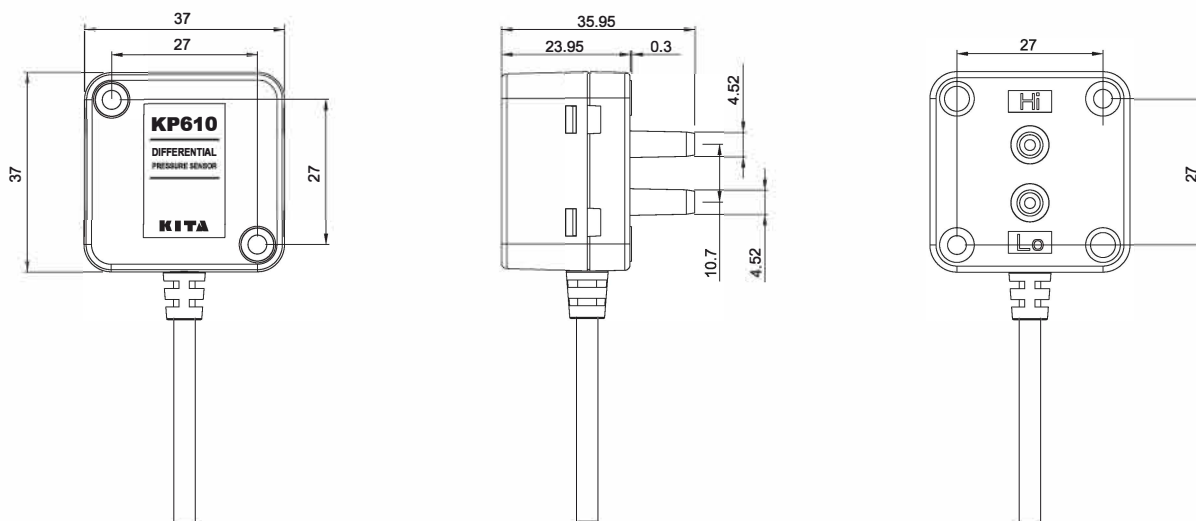
A. SPECIFICATIONS		KP611	KP612
Rated differential pressure range		0 ~ 5 kPa	0 ~ 2 kPa
Operating pressure range		-50 ~ 50 kPa (*1)	
Withstand pressure		65 kPa	
Fluid		Filtered air, Non-corrosive/Non-flammable gas	
Power supply voltage		12 to 24V DC $\pm 10\%$, Ripple (P-P) 10% or less	
Current consumption		≤ 15 mA (with no load)	
Analog output (Voltage Output)		Output Voltage : 1 to 5V $\pm 1\%$ F.S. (within rated pressure range) Linearity : $\pm 0.5\%$ F.S. Output Impedance : about 1k Ω	
Analog output (Current Output)		Output Current : 4 to 20mA $\pm 1\%$ F.S. (within rated pressure range) Linearity : $\pm 0.5\%$ F.S. Max.Load Impedance : 250 Ω at power supply of 12V 600 Ω at power supply of 24V	
Environment	Enclosure	IP40	
	Ambient temp. range	Operation: 0 ~ 50°C, Storage: -20 ~ 70°C (No condensation or freezing)	
	Ambient humidity range	Operation/Storage: 35 ~ 85% RH (No condensation)	
	Withstand voltage	1000V AC in 1-min (between case and lead wire)	
	Insulation resistance	50M Ω (at 500V DC, between case and lead wire)	
	Vibration	Total amplitude 1.5mm or 10G, 10Hz-150Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z	
	Shock	300m/s ² (30G), 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	
Port size		$\varnothing 4.8$ ($\varnothing 4.4$ in the end) resin pipe (Applicable to $\varnothing 6$ air tubing)	
Lead wire		Oil-resistance cable (0.15 mm ²)	
Weight		Approx. 75g (with 2-meter lead wire)	

*1 : To detect differential pressure from 0~2 kPa or 0~5 kPa within the range of -50~50 kPa

B. ORDERING INFORMATION



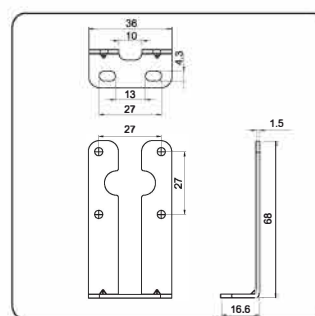
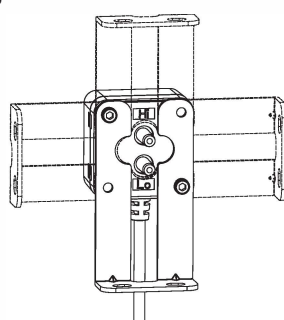
C. DIMENSIONS



Unit:mm

D. OPTIONAL PARTS DIMENSIONS

Mounting Bracket BT-16

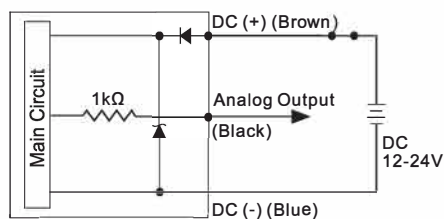


Unit:mm

E. CIRCUIT WIRING DIAGRAM

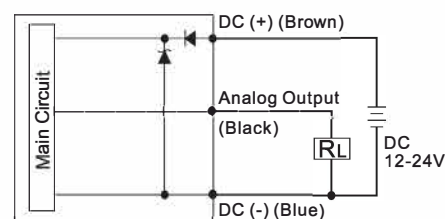
KP61□-10-R6

Analog Output (1~5V)



KP61□-11-R6

Analog Output (4~20mA)

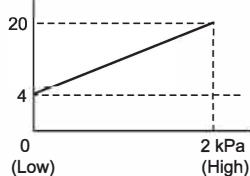


F. ANALOG OUTPUT

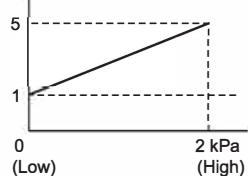
1 Analog output

Output range 1 to 5V or 4 to 20mA, proportional to the pressure range

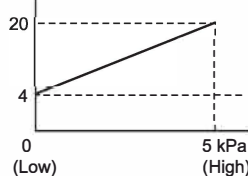
Analog output (mA)



Analog output (V)



Analog output (mA)



Analog output (V)

