

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.

SPECIFICATIONS		PS-611	PS-612
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	IP 40	
	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		$\varnothing 4$ Oil-resistance cable (PVC) - 26 AWG (0.15 mm ²) - 3 cores	
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

ORDERING INFORMATION

PS - 611 - 10 - R6

Pressure Range

- 1 : 0 ~ 5 kPa
- 2 : 0 ~ 2 kPa

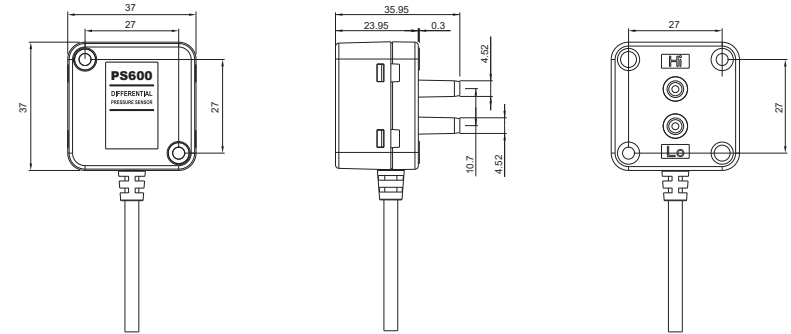
Output Specifications

- 10 : Analog output (1~5V)
- 11 : Analog output (4~20mA)

Optional Parts

- BT-16 : Mounting bracket

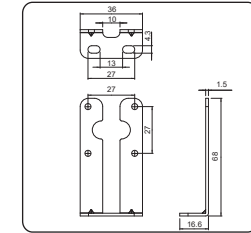
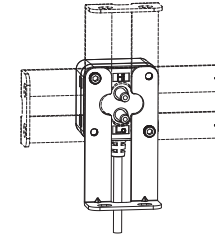
DIMENSIONS



Unit:mm

OPTIONAL PARTS DIMENSIONS

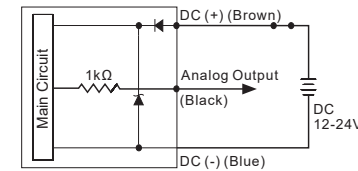
Mounting Bracket BT-16



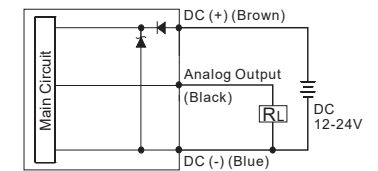
Unit:mm

CIRCUIT WIRING DIAGRAM

PS-61□-10-R6 Analog Output (1~5V)

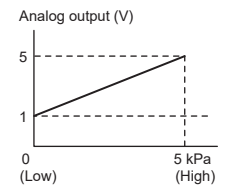
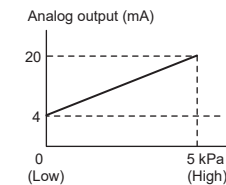
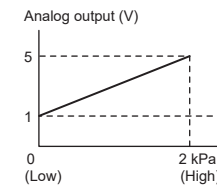
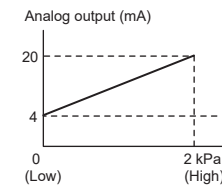


PS-61□-11-R6 Analog Output (4~20mA)



ANALOG OUTPUT

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



使用本產品應注意事項：

- ① 禁止使用於腐蝕性及易燃性的氣體或任何液體。
- ② 請在規格表內的設定壓力範圍內使用，若供給之壓力超過最大耐壓會使本產品損壞，導致功能異常。
- ③ 裝設本產品時，請勿用力撞擊或從高處掉落，即使外觀未受損害也可能因內部零件損壞而導致功能異常。
- ④ 在連接本產品於電路控制系統時，應先關掉電源，因為錯誤的接線或短路會導致本產品損壞。
- ⑤ 本產品請勿使用在有水氣或油霧的環境中。
- ⑥ 本系列產品並未有防爆驗證，請勿使用於空氣中含有爆炸性氣體或粉塵環境中。
- ⑦ 不可將連接本產品的導線與電源線或其它高壓電線綑綁在一起，以避免雜訊的干擾，而影響到本產品的功能。
- ⑧ 如果要量測微小壓力差，請先通電熱機20~30分鐘；當產品通電10分鐘內，類比輸出的偏移量約為1%。

規格表		PS-611	PS-612
額定差壓範圍		0~5 kPa	0~2 kPa
使用壓力範圍		-50 ~ 50 kPa (*1)	
耐壓力		65 kPa	
適用氣體		空氣, 非腐蝕性, 不可燃性	
電源電壓		12 to 24V DC $\pm 10\%$, 漣波峰值 10% 以下	
消費電流		≤ 15 mA (無負載時)	
線性類比輸出 (電壓輸出)		輸出電壓: 1 to 5V $\pm 1\%$ F.S. (額定壓力範圍下) 直線性: $\pm 0.5\%$ F.S. 輸出阻抗: 約 1k Ω	
線性類比輸出 (電流輸出)		輸出電流: 4 to 20mA $\pm 1\%$ F.S. (額定壓力範圍下) 直線性: $\pm 0.5\%$ F.S. 負載阻抗最大: 250 Ω 在電壓為 12V 600 Ω 在電壓為 24V	
耐環境	防護等級	IP 40	
	週圍溫度	動作: 0 ~ 50°C, 保存: -20 ~ 70°C (無水露及不結冰狀況下)	
	週圍濕度	動作及保存: 35 ~ 85% RH (無水露)	
	耐電壓	1000V AC 1分鐘 (引線及外殼間)	
	絕緣阻抗	50M Ω 以上 (500V DC) (引線及外殼間)	
	耐振動	複振幅 1.5mm 或 10G, 每一分鐘 10Hz-150Hz-10Hz, X、Y、Z 每個方向各 2 小時	
耐衝擊		300m/s ² (30G), X、Y、Z 每個方向各 3 次	
溫度特性		$\pm 3\%$ F.S. (0 ~ 50°C 溫度範圍內)	
接管口徑		$\varnothing 4.8$ (端部 $\varnothing 4.4$) 樹脂管 (適用於 $\varnothing 6$ 空氣管)	
電線規格		$\varnothing 4$ 耐油 PVC - 26 AWG (0.15 mm ²) - 3 芯	
重量		約 75g (包含 2 公尺的電線)	

*1. 在 -50 ~ 50 kPa 的範圍內檢測 0 ~ 2 kPa 或 0 ~ 5 kPa 的壓差。

型號規格說明

P S - 6 1 1 - 1 0 - R 6

壓力範圍

- 1: 0 ~ 5 kPa
2: 0 ~ 2 kPa

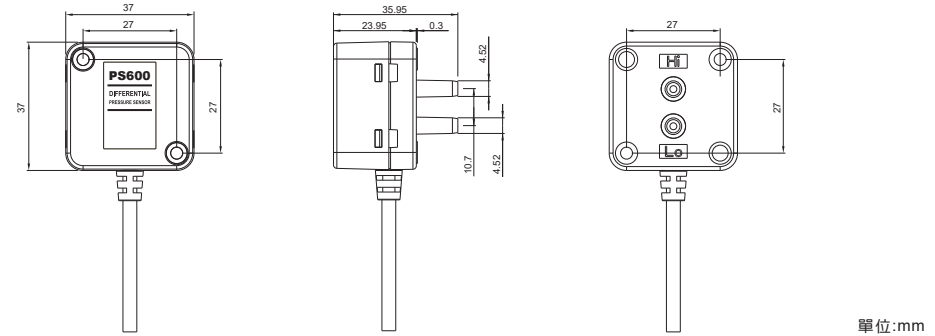
輸出類型

- 10: Analog 輸出 (1~5V)
11: Analog 輸出 (4~20mA)

配件類型(選購)

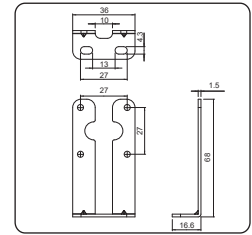
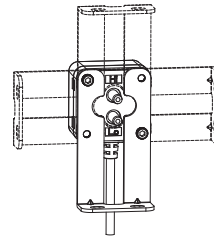
BT-16: 固定架

外觀尺寸圖



配件類型/尺寸圖

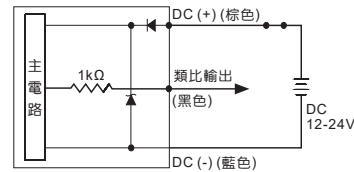
固定架 BT-16



輸出電路接線圖

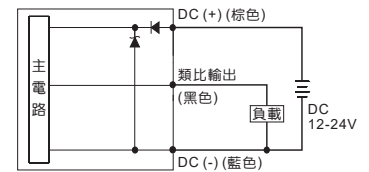
PS-61□-10-R6

Analog 輸出 (1~5V)



PS-61□-11-R6

Analog 輸出 (4~20mA)



線性類比輸出

類比輸出範圍 1~5V 或 4~20mA，與壓力範圍成比例

