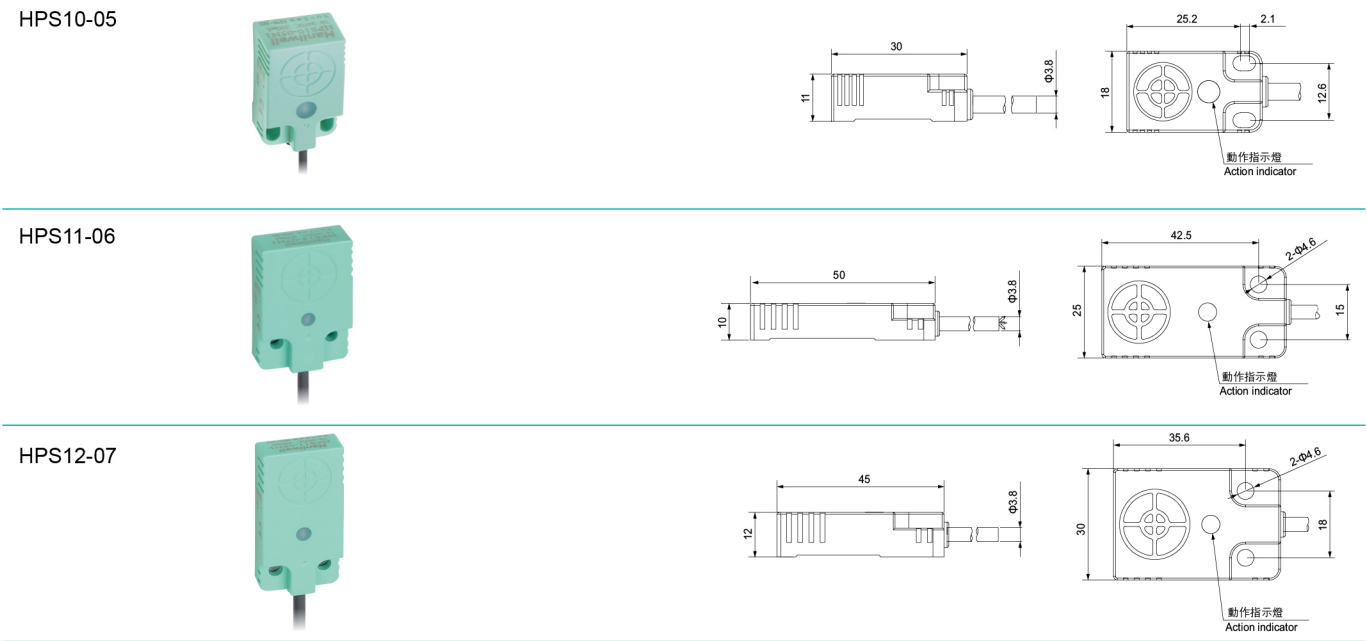
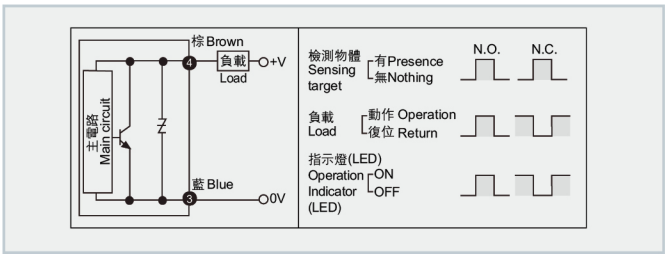


外觀和尺寸 Appearance and Dimension

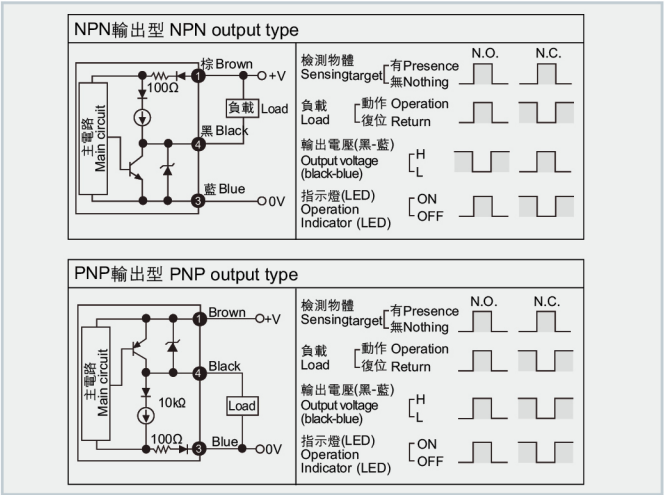


輸出電路 Control Output Diagram

直流2綫式 DC 2-wire type



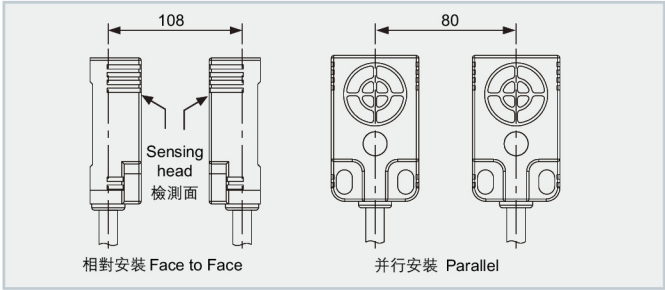
直流3綫式 DC 3-wire type



正確使用 Proper Usage

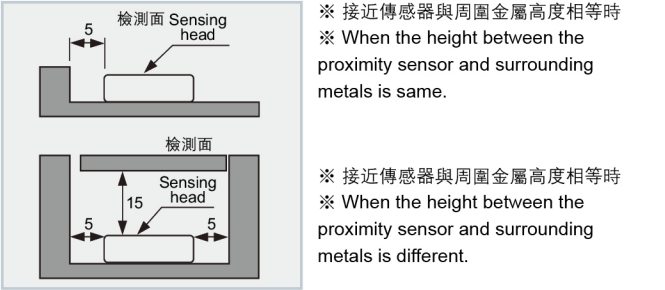
相互干擾 Mutual-interference

當幾個接近傳感器安裝在一起，會發生相互干擾引起傳感器故障，一般兩個傳感器之間的最小間隔距離如圖
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



周圍金屬的影響 Influence by surrounding metals

當傳感器安裝在金屬面板時，你必須要預防被檢測物以外的金屬物體，因此，要設定最小的間隔距離如圖
When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



HPS 長距離檢測型接近開關

Long Distance Proximity Sensor Flat Type

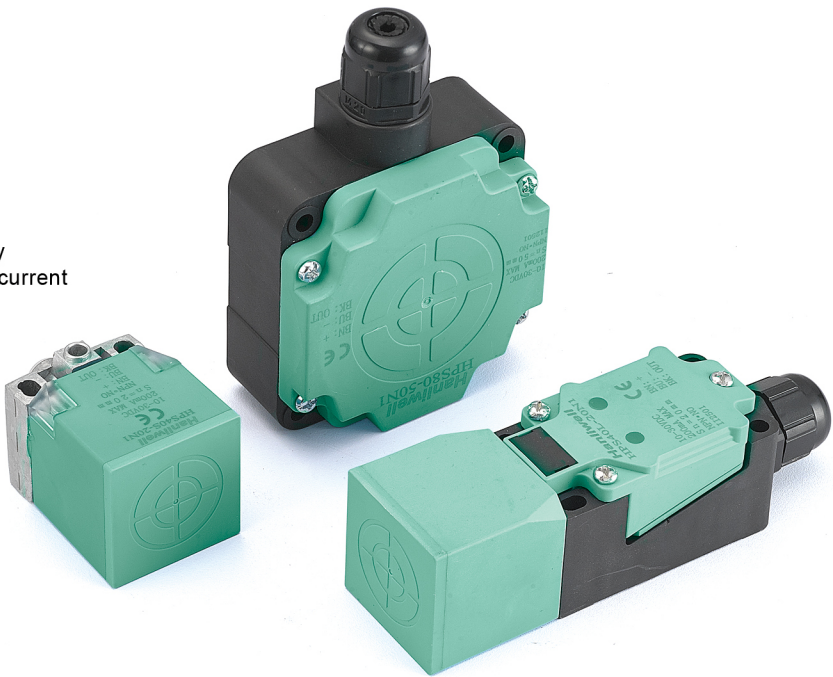
特點 Features

- 長距離性型檢測距離為50mm
- 採用專用IC提高抗干擾能力
- 內置電源反接保護，浪涌，過電流保護電路
- 紅色指示燈易于確認動作狀態
- 防護等級IP65(IEC規格)
- Long sensing distance 50mm
- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection, overcurrent protection
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)

型號說明 Model Number Structure

HPS -

1 2 3 4 5 6 7 8 9



項目 Item	代號 Code	說明 Description
1. 公司代號 Company code	H	公司代號 Company code
2. 產品名稱 Product name	P	電感式接近開關 Inductive proximity sensor
3. 外殼形狀 Shape of shell	S	方形 Square
4. 尺寸代碼 Dimension code	80	80=長方形80 Rectangle 80
5. 產品類型 Product type	無 Without	高端型 High-end type
6. 檢測距離 Detection distance	20	20=20mm
7. 輸出方式 Output mode	A	AC二綫 AC 2wires
	D	DC二綫 DC 2wires
	P	PNP三綫PNP 3wires
	N	NPN三綫NPN 3wires
8. 輸出狀態 Output state	1	常開 NO
	2	常閉 NC
	3	常開+常閉 NO+NC
9. 連接形式 Connection	無 Without	引綫式 Without: Lead wire
	T	接插式 Plug-in
	R	配綫引出接插式 Wiring leads Plug-in

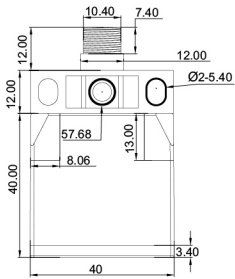
規格 Specifications

型號名 Model	HPS40L-20D1 HPS40L-20D2 HPS40L-20N1 HPS40L-20N2 HPS40L-20P1 HPS40L-20P2 HPS40L-20A1 HPS40L-20A2	HPS40S-20D1 HPS40S-20D2 HPS40S-20N1 HPS40S-20N2 HPS40S-20P1 HPS40S-20P2 HPS40S-20A1 HPS40S-20A2	HPS80-50D1 HPS80-50D2 HPS80-50N1 HPS80-50N2 HPS80-50P1 HPS80-50P2 HPS80-50A1 HPS80-50A2
檢測距離 Sensing distance	20mm	20mm	50mm
應差距離 Hysteresis	檢測距離的10%以下 Max. 10% of sensing distance		
標準檢測物 Standard sensing target	75 × 75 × 1mm (鐵 Iron)	75 × 75 × 1mm (鐵 Iron)	120 × 120 × 1mm (鐵 Iron)
設定距離 Setting distance	0~15.5mm	0~15.5mm	0~40mm
電源(使用電壓範圍) Power supply (Operating voltage)	10-30VDC / 24-250VAC		
漏電流 Leakage current	10mA以下 Max. 10mA		
應答頻率 (※1) Response frequency (※1)	DC 200Hz / AC 20Hz		
殘留電壓 Residual voltage	DC二線: 3.5V以下 Max. 3.5V DC三線: 1V以下 Max. 1.0V AC二線: 10V以下 Max. 10V		
溫度的影響 Affection by Temp.	在-25~+70℃溫度範圍內+20℃時的檢測距離的±10%以內 Max. ±10% for sensing distance at ambient temperature 20℃		
控制輸出 Control output	200mA以下 Max. 200mA		
絕緣阻抗 Insulation resistance	50MΩ以上(500VDC為基準) Min. 50MΩ(at 500VDC megger)		
耐電壓 Dielectric strength	1500VAC 50/60Hz1分鐘 1500VAC 50/60Hz for 1minute		
耐振動 Vibration	10~55Hz(周期1分鐘) 振幅1mm X, Y, Z各方向2小時 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐衝擊 Shock	500m/s ² (50G) X, Y, Z 各方向3次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
顯示燈 Indicator	動作指示燈(紅色LED) Operation indicator(red LED)		
使用周圍溫度 Ambient temperature	-25~+70℃(未結冰狀態 No icing)		
儲存溫度 Storage temperature	-30~+80℃(未結冰狀態 No icing)		
使用周圍濕度 Ambient humidity	35~95%RH (未結露狀態 No condensation)		
保護電路 Protection circuit	浪涌保護電路, 過載&短路保護電路, 過電流保護電路, Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit		
材質 Material	外殼: PBT, 一般型線纜(灰色): 聚氯乙烯(PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)		
防護等級 Protection	IP65		

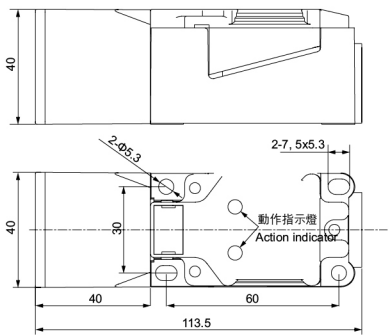
(※1) 開關動作的應答頻率為平均值。測定條件使用標準檢測物，檢測物的間距為標準檢測物的2倍，設定距離為檢測距離的1/2。
※ 標準產品和IEC標準的功能和規格是一樣的。
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外觀和尺寸 Appearance and Dimension

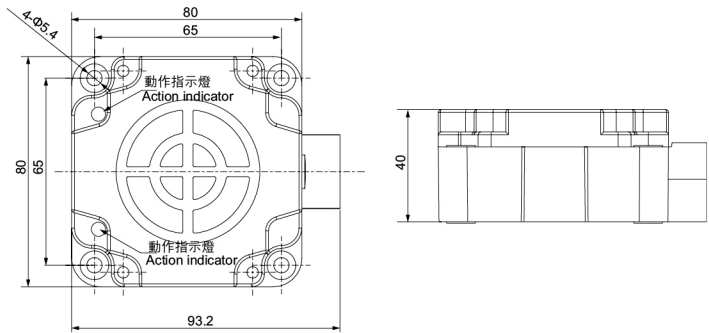
HPS40L-20



HPS40S-20

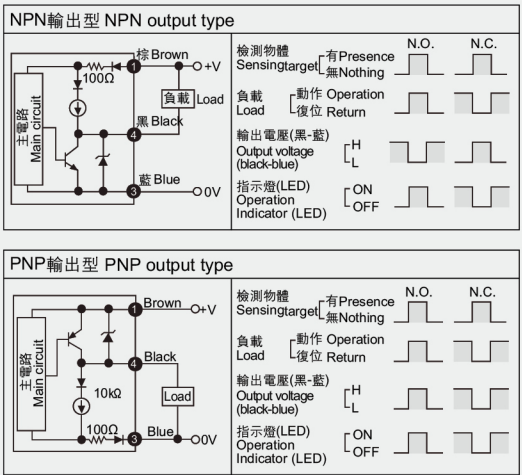


HPS80-50



輸出電路 Control Output Diagram

直流3線式 DC 3-wire type



交流2線式 AC 2-wire type

