

M18 耐彎抗拉圓管型近接開關

Tubular Inductive Proximity Sensor

Characteristic / 特點:

- Special line-out design for bending resistance and tensile. It will upgrade the durability and life. / 獨特的出線包層設計，抗拉、耐彎曲，提升耐用度和壽命。
- The IP67 rating is designed to the effective waterproof. / 保護結構達到IP67的規格，能有效的防水。
- N3/P3 model: NPN N.O./N.C. & PNP N.O./N.C. 2-in-1 outputs. / N3/P3電路：NPN N.O./N.C. & PNP N.O./N.C. 2合1輸出。
- Surge suppressor and overload protection. / 突波吸收，負載保護。



勝特力材料 886-3-5753170
 勝特力電子(上海) 86-21-34970699
 勝特力電子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Model / 型號	NPN N.O. / N.C.	PSC1805-N3	PSC1805-N3K	PSC1808-N3	PSC1808-N3K
	DC 2 線式 N.O.	PSC1805-C	-	PSC1808-C	-
	DC 2 線式 N.C.	PSC1805-C2	-	PSC1808-C2	-
Sensing distance / 檢出距離	5 mm ± 10%			8 mm ± 10%	
Secure sensing distance / 建議距離	0 ~ 4.0 mm / 0 ~ 4mm			0 ~ 9.6 mm / 0 ~ 6.4mm	
Standard sensing object / 標準檢測物	Iron / 鐵 18 × 18 × 1 mm				
Sensing type / 檢出方式	Shielded / 隔離型			Unshielded / 非隔離	
Description / 外型	Standard M18 / 標準M18				
Hysteresis / 遲滯	≤ 10 % of sensing distance / 檢測距離的 10 % 以下				
Response time / 反應頻率	600 Hz / 300 Hz				
Operating voltage / 工作電壓	DC 12 ~ 30 V / DC 24V ± 10%				
Current consumption / 消耗電流	≤ 14 mA no-load (Not for C / C2)				
Load current / 負載電流	100 mA Max. at DC 24V				
Residual voltage / 殘餘電壓	≤ DC 2V / ≤ DC 7V				
Insulation resistance / 隔離阻抗	20MΩ min. (DC500V)				
Voltage withstandability / 絕緣耐壓	AC1000V 60Hz for 60 Sec.				
Operating temperature / 工作溫度	-20°C ~ +60°C				
Protection degree / 防水等級	IP 67				
Option / 選購配件	M124R-PVC-2M				
Wiring method / 出線方式	N3/P3: 0.5.2x2M / 3wires C/C2: 0.5.2x2M / 2 wires	M12 pigtailed type / M12 出線式接頭型	N3/P3: 0.5.2x2M / 3wires C/C2: 0.5.2x2M / 2 wires	M12 pigtailed type / M12 出線式接頭型	
Weight / 重量	93g	40.5g	92g	39.5g	

M18
電感式 / 靜電容近接開關

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注意事項

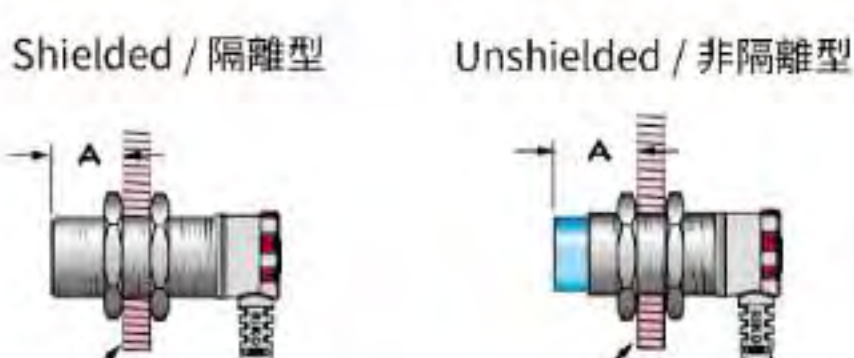
耐彎抗拉圓管型近接開關

Precautions proper installation / 安裝注意事項

PSD 系列

Mounting with nut / 螺母安裝

Shielded / 隔離型 Unshielded / 非隔離型



Sensing surface	Model	A (mm)
Shielded / 隔離型	PSD0801	≥ 0
	PSD1202	≥ 0
	PSD1805	≥ 0
	PSD3010	≥ 0
	PSD0803	≥ 6
Unshielded / 非隔離型	PSD1205	≥ 15
	PSD1808	≥ 22
	PSD1810	≥ 22
	PSD3015	≥ 30
	PSD3018	≥ 30
	PSD3018	≥ 30

Crosstalk prevention / 相互干擾

當多個感測器並列或對向安裝，預防相互干擾，請參照建議安裝距離，如下表：

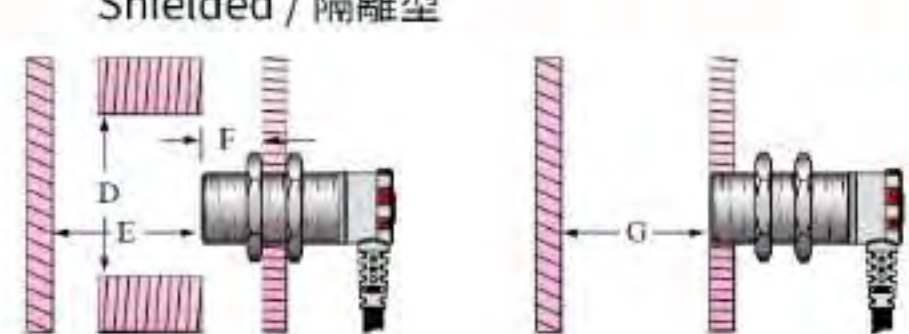


Sensing surface	Model	B (mm)	C (mm)
Shielded / 隔離型	PSD0801	≥ 5	≥ 15
	PSD1202	≥ 10	≥ 20
	PSD1805	≥ 12	≥ 30
	PSD3010	≥ 50	≥ 45
	PSD0803	≥ 8	≥ 15
Unshielded / 非隔離型	PSD1205	≥ 10	≥ 20
	PSD1808	≥ 16	≥ 30
	PSD1810	≥ 16	≥ 30
	PSD3015	≥ 60	≥ 45
	PSD3018	≥ 60	≥ 45
	PSD3018	≥ 60	≥ 45

Influenced by surrounding metals. / 周圍金屬影響

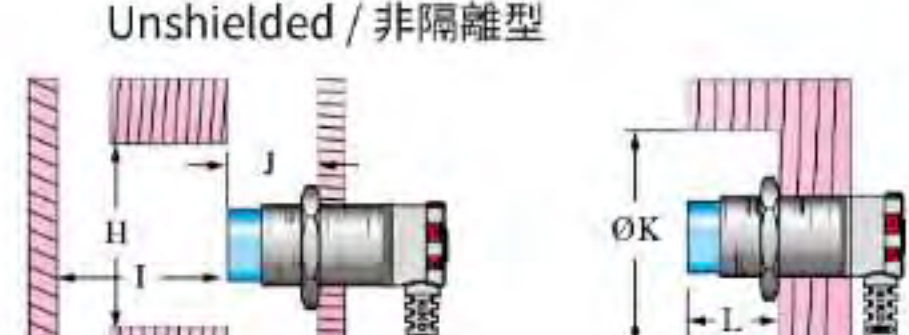
避免環境干擾，請參照建議安裝距離表格如下

Shielded / 隔離型



Model	D (mm)	E (mm)	F (mm)	G (mm)
PSD0801	≥ 12	≥ 4	≥ 0	≥ 4
PSD1202	≥ 20	≥ 8	≥ 0	≥ 8
PSD1805	≥ 30	≥ 20	≥ 0	≥ 20
PSD3010	≥ 50	≥ 40	≥ 0	≥ 40

Unshielded / 非隔離型



Model	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)
PSD0803	≥ 22	≥ 8	≥ 6	≥ 22	≥ 6
PSD1205	≥ 36	≥ 20	≥ 15	≥ 40	≥ 15
PSD1808	≥ 54	≥ 40	≥ 22	≥ 40	≥ 15
PSD1810	≥ 54	≥ 40	≥ 22	≥ 55	≥ 22
PSD3015	≥ 90	≥ 70	≥ 30	≥ 90	≥ 30
PSD3018	≥ 90	≥ 70	≥ 30	≥ 90	≥ 30

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耐彎抗拉圓管型近接開關

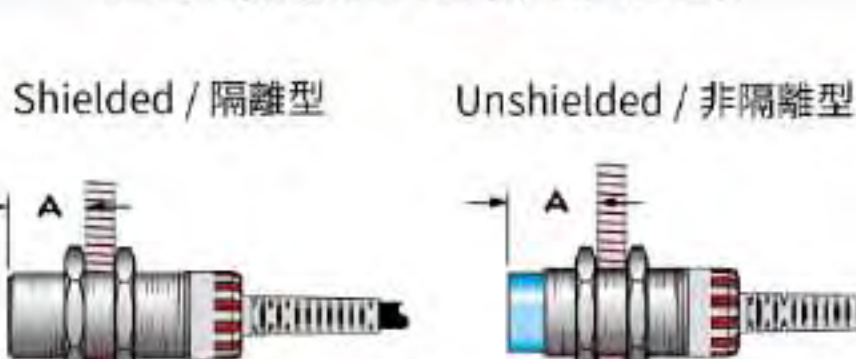
注意事項

Precautions proper installation / 安裝注意事項

PSC 系列

Mounting with nut / 螺母安裝

Shielded / 隔離型 Unshielded / 非隔離型



Sensing surface	Model	A (mm)
Shielded / 隔離型	PSC0801	≥ 0
	PSC1202	≥ 0
	PSC1203	≥ 0
	PSC1805	≥ 0
	PSC1806	≥ 0
	PSC3010	≥ 0
Unshielded / 非隔離型	PSC3012	≥ 0
	PSC0802	≥ 6
	PSC1205	≥ 15
	PSC1206	≥ 15
	PSC1808	≥ 22
	PSC1812	≥ 22
	PSC3018	≥ 30
PSC3025	≥ 40	

Crosstalk prevention / 相互干擾

當多個感測器並列或對向安裝，預防相互干擾，請參照建議安裝距離（如下表）



Sensing surface	Model	B (mm)	C (mm)
Shielded / 隔離型	PSC0801	≥ 5	≥ 15
	PSC1202	≥ 10	≥ 20
	PSC1203	≥ 10	≥ 20
	PSC1805	≥ 12	≥ 30
	PSC1806	≥ 15	≥ 30
	PSC3010	≥ 50	≥ 45
	PSC3012	≥ 50	≥ 45
	PSC0802	≥ 6	≥ 15
	PSC1205	≥ 20	≥ 20
	PSC1206	≥ 20	≥ 20
Unshielded / 非隔離型	PSC1808	≥ 25	≥ 30
	PSC1812	≥ 25	≥ 30
	PSC3018	≥ 60	≥ 45
	PSC3018	≥ 60	≥ 45
	PSC3025	≥ 70	≥ 60

Influenced by surrounding metals. / 周圍金屬影響

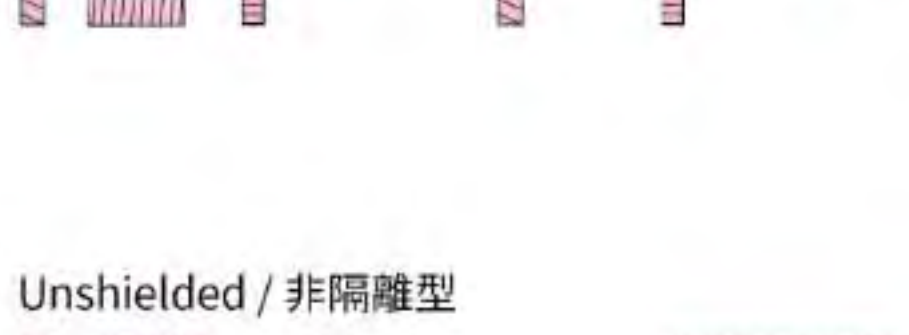
避免環境干擾，請參照建議安裝距離表格如下

Shielded / 隔離型



Model	D (mm)	E (mm)	F (mm)	G (mm)
PSC0801	≥ 12	≥ 4	≥ 0	≥ 4
PSC1202	≥ 20	≥ 8	≥ 0	≥ 8
PSC1203	≥ 20	≥ 10	≥ 0	≥ 10
PSC1805	≥ 30	≥ 20	≥ 0	≥ 20
PSC1806	≥ 30	≥ 20	≥ 0	≥ 30
PSC3010	≥ 50	≥ 40	≥ 0	≥ 40
PSC3012	≥ 50	≥ 50	≥ 0	≥ 50

Unshielded / 非隔離型



Model	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)
PSC0802	≥ 22	≥ 8	≥ 6	≥ 22	≥ 6
PSC1205	≥ 36	≥ 20	≥ 15	≥ 40	≥ 15
PSC1206	≥ 36	≥ 20	≥ 15	≥ 40	≥ 15
PSC1808	≥ 54	≥ 40	≥ 22	≥ 55	≥ 22
PSC1812	≥ 60	≥ 45	≥ 25	≥ 60	≥ 25
PSC3018	≥ 90	≥ 70	≥ 30	≥ 90	≥ 30
PSC3025	≥ 105	≥ 85	≥ 45	≥ 105	≥ 45

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注意事項

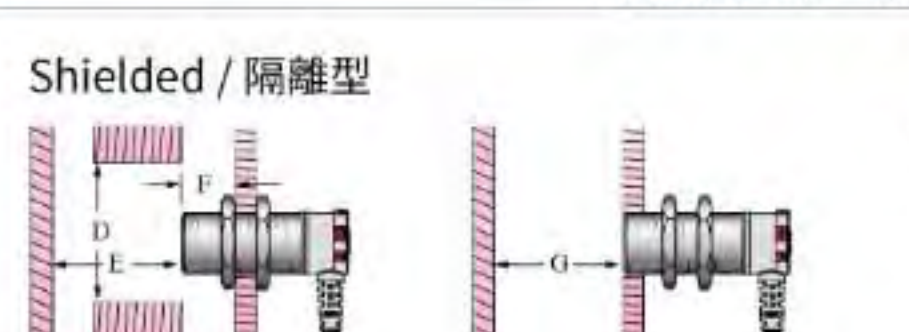
耐熱圓管型近接開關

HPD 系列

Influenced by surrounding metals. / 周圍金屬影響

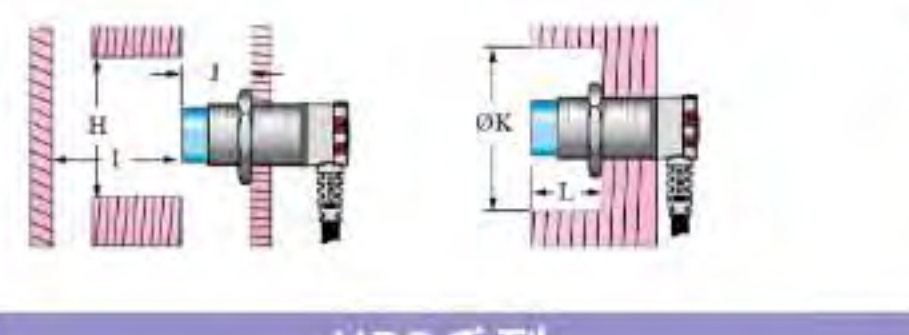
避免環境干擾，請參照建議安裝距離表格如下

Shielded / 隔離型



Model	D (mm)	E (mm)	F (mm)	G (mm)
HPD1202	≥ 20	≥ 8	≥ 0	≥ 8
HPD1805	≥ 30	≥ 20	≥ 0	≥ 20
HPD3010	≥ 50	≥ 40	≥ 0	≥ 40

Unshielded / 非隔離型

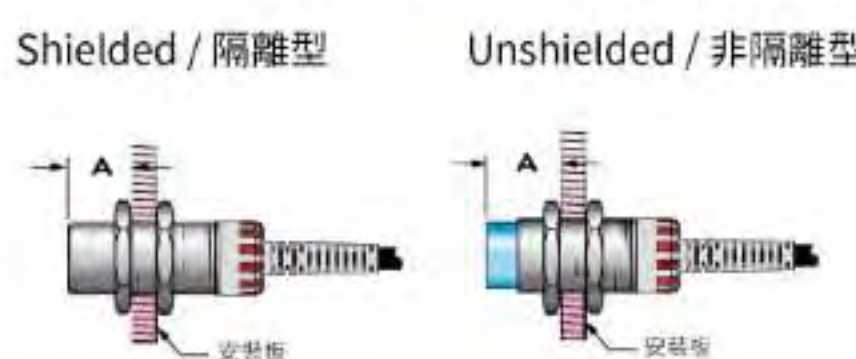


Model	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)
HPD1204	≥ 36	≥ 20	≥ 15	≥ 40	≥ 15
HPD1808	≥ 54	≥ 40	≥ 22	≥ 55	≥ 22
HPD3015	≥ 90	≥ 70	≥ 30	≥ 90	≥ 30

HPS 系列

Mounting with nut / 螺母安裝

Shielded / 隔離型 Unshielded / 非隔離型



Sensing surface	Model	A (mm)
Shielded / 隔離型	HPS1202	≥ 0
	HPS1805	≥ 0
	HPS3010	≥ 0
Unshielded / 非隔離型	HPS1204	≥ 15
	HPS1808	≥ 22
	HPS3015	≥ 30

Crosstalk prevention / 相互干擾

當多個感測器並列或對向安裝，預防相互干擾，請參照建議安裝距離（如下表）



Sensing surface	Model	B (mm)	C (mm)
Shielded / 隔離型	HPS1202	≥ 10	≥ 20
	HPS1805	≥ 15	≥ 30
	HPS3010	≥ 50	≥ 45
Unshielded / 非隔離型	HPS1204	≥ 20	≥ 20
	HPS1808	≥ 25	≥ 30
	HPS3015	≥ 60	≥ 45

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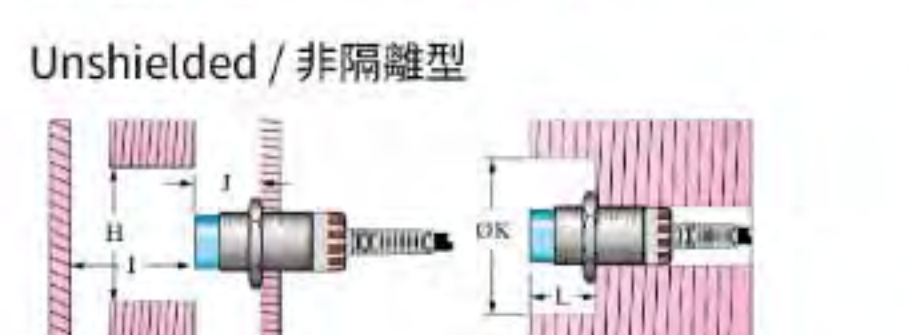
避免環境干擾，請參照建議安裝距離表格如下

Shielded / 隔離型



Model	D (mm)	E (mm)	F (mm)	G (mm)
HPS1202	≥ 20	≥ 8	≥ 0	≥ 8
HPS1805	≥ 30	≥ 20	≥ 0	≥ 20
HPS3010	≥ 50	≥ 40	≥ 0	≥ 40

Unshielded / 非隔離型



Model	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)
HPS1204	≥ 36	≥ 20	≥ 15	≥ 40	≥ 15
HPS1805	≥ 54	≥ 40	≥ 22	≥ 55	≥ 22
HPS3015	≥ 90	≥ 70	≥ 30	≥ 90	≥ 30