

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.
/ 獨特的出線包覆設計，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。



Model / 型號	NPN N.O. / N.C.	PSC1805-N3	PSC1805-N3K	PSC1808-N3	PSC1808-N3K
	PNP N.O. / N.C.	PSC1805-P3	PSC1805-P3K	PSC1808-P3	PSC1808-P3K
	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: Ø5.2x2M/3wires C/C2: Ø5.2x2M/2 wires	M12 pigtailed type / M12 出線式接頭型	N3/P3: Ø5.2x2M/3wires C/C2: Ø5.2x2M/2 wires	M12 pigtailed type / M12 出線式接頭型	
Weight / 重量	93g	40.5g	92g	39.5g	
Wiring diagrams / 接線圖					
-N3					
-P3K					
(1)BROWN (3)BLUE (2)WHITE (4)BLACK					

M18

電感式 / 靜電容近接開關

Ø3
 Ø4
 M5
 Ø6
 M8
 M12
 M18
 M30

JM
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 KND
 PN
 PND
 RN
 SN

SID
 SIR
 SIA

KC
 KCT
 KCP

注意事項

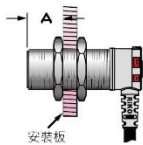
耐彎抗拉圓管型近接開關

Precautions proper installation / 安裝注意事項

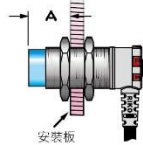
PSD 系列

Mounting with nut / 螺母安裝

Shielded / 隔離型



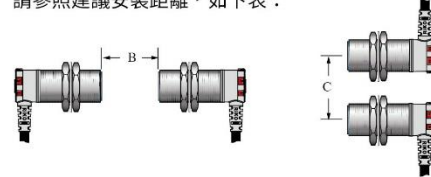
Unshielded / 非隔離型



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

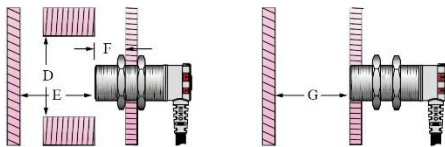


Sensing surface	Model	B (mm)	C (mm)
Shielded / 隔離型	PSD0801	≥5	≥15
	PSD1202	≥10	≥20
	PSD1805	≥12	≥30
	PSD3010	≥50	≥45
	PSD0803	≥8	≥15
Unshielded / 非隔離型	PSD1205	≥10	≥20
	PSD1808	≥16	≥30
	PSD1810	≥16	≥30
	PSD3015	≥60	≥45
	PSD3018	≥60	≥45

Influenced by surrounding metals. / 周圍金屬影響

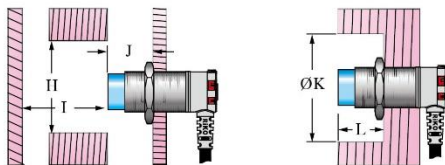
避免環境干擾，請參照建議安裝距離表格如下

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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注意事項

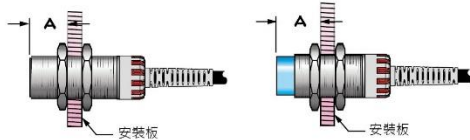
Precautions proper installation / 安裝注意事項

PSC 系列

Mounting with nut / 螺母安裝

Shielded / 隔離型

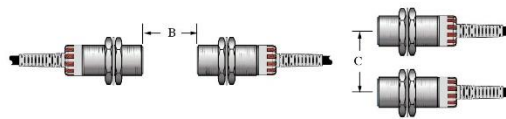
Unshielded / 非隔離型



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

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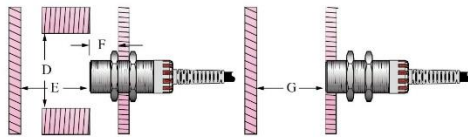


Sensing surface	Model	B (mm)	C (mm)
Shielded / 隔離型	PSC0801	≥ 5	≥ 15
	PSC1202	≥ 10	≥ 20
	PSC1203	≥ 10	≥ 20
	PSC1805	≥ 12	≥ 30
	PSC1806	≥ 15	≥ 30
	PSC3010	≥ 50	≥ 45
	PSC3012	≥ 50	≥ 45
Unshielded / 非隔離型	PSC0802	≥ 6	≥ 15
	PSC1205	≥ 20	≥ 20
	PSC1206	≥ 20	≥ 20
	PSC1808	≥ 25	≥ 30
	PSC1812	≥ 25	≥ 30
	PSC3018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

Influenced by surrounding metals. / 周圍金屬影響

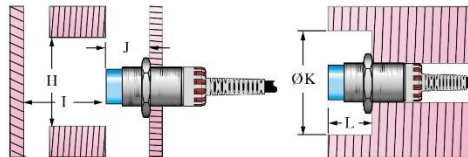
避免環境干擾，請參照建議安裝距離表格如下

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	≥ 30	≥ 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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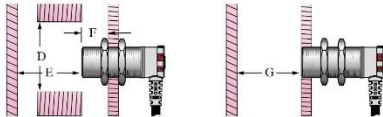
耐熱圓管型近接開關

HPD 系列

Influenced by surrounding metals. / 周圍金屬影響

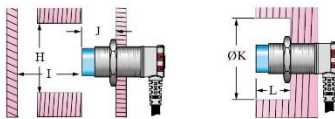
避免環境干擾，請參照建議安裝距離表格如下

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

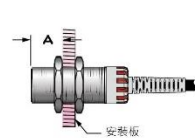


Model	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)
HPD1204	≥36	≥20	≥15	≥40	≥15
HPD1808	≥54	≥40	≥22	≥55	≥22
HPD3015	≥90	≥70	≥30	≥90	≥30

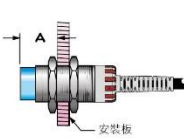
HPS 系列

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

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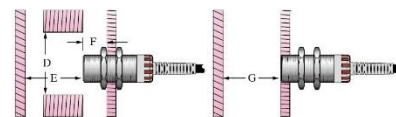


Sensing surface	Model	B (mm)	C (mm)
Shielded / 隔離型	HPS1202	≥10	≥20
	HPS1805	≥15	≥30
	HPS3010	≥50	≥45
Unshielded / 非隔離型	HPS1204	≥20	≥20
	HPS1808	≥25	≥30
	HPS3015	≥60	≥45

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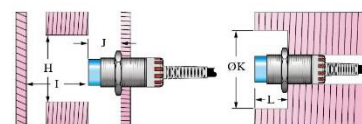
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Shielded / 隔離型



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

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