

◆ Characteristic / 特點：

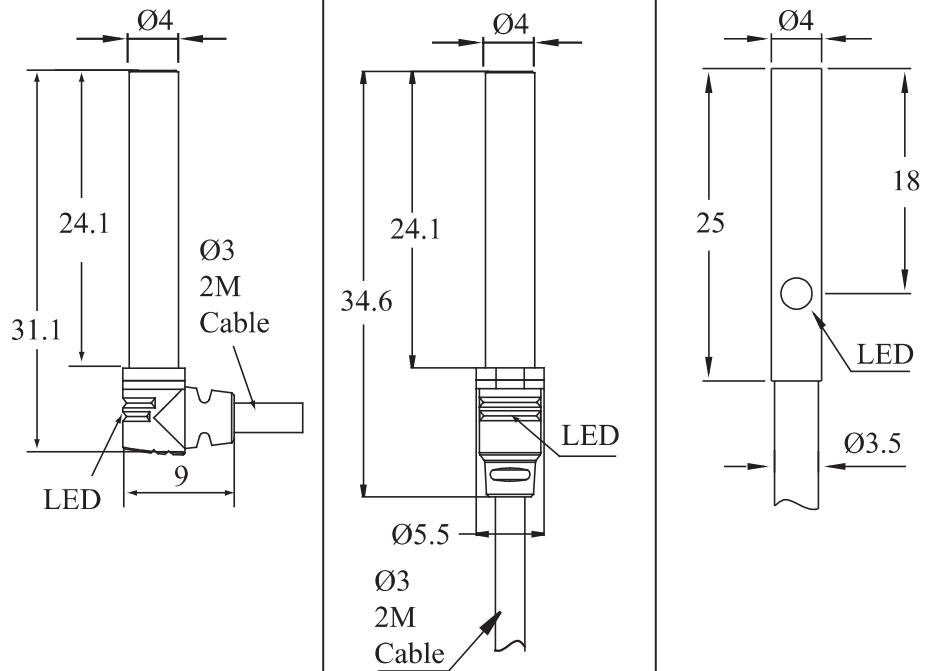
- Large LED indicator, clearly checking working operation.
/ 大面積動作燈，可清晰了解感測器的動作。
- 90 degree wiring, saving space.
/ 專利90度出線設計，節省空間。



◆ Specifications / 規格表：

Output method 輸出模式	NPN N.O.	PSD0401-N	PS0401-N	SC0401-N
	PNP N.O.	—	—	SC0401-P
Sensing distance / 檢出距離	0.8 mm			
Secure sensing distance / 建議距離	0 to 0.5 mm			
Standard sensing object / 標準檢測物	Iron 4 x 4 x 1mm			
Sensing type / 檢出方式	Shielded / 隔離型			
Description / 外型	Standard Ø4 / 標準Ø4			
Hysteresis / 遲滯	≤ 10 % of sensing distance			
Response time / 反應時間	0.5 ms Max.			0.2 ms Max.
Operating voltage / 工作電壓	DC10 ~ 30 V			
Current consumption / 消耗電流	≤ 10 mA no-load			
Load current / 負載電流	100 mA Max.			200 mA Max.
Leakage current / 漏電流	≤ 0.1 mA no-load			
Residual voltage / 殘餘電壓	≤ DC 1.5V (100mA)			≤ DC 2V 200mA
Voltage withstandability / 絕緣耐壓	AC1000V 60Hz for 60 Sec.			
Operating temperature / 工作溫度	-20°C ~ + 60°C			-25°C ~ + 70°C
Protection degree / 防水等級	IP 66			IP 67
Wiring method / 出線方式	Ø3 x 2M / 3 wires			Ø3.5 x 2M x 3 wires
Weight / 重量	Approx. 30g			Approx. 26g

◆ Dimensions / 尺寸圖： (unit:mm)



PSD18-
LA/LV
PSC18-
LA/LV
SC18-
LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

Tubular Inductive Proximity Sensor

M5

◆ Characteristic / 特點：

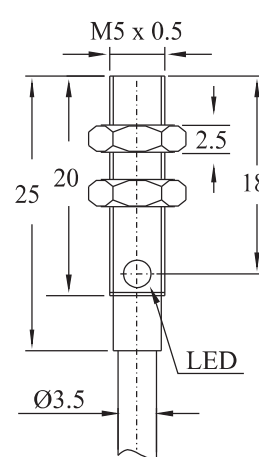
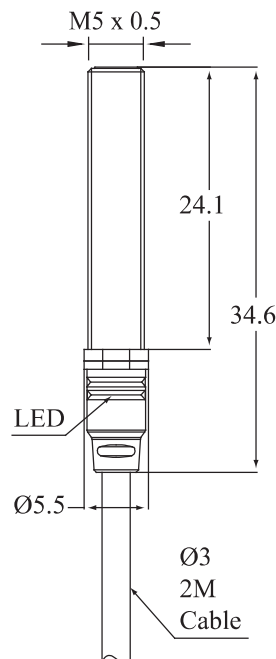
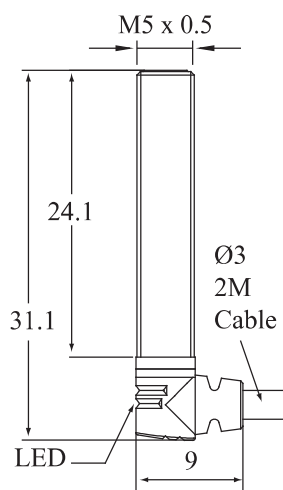
- Large LED indicator, clearly checking working operation.
/ 大面積動作燈，可清晰了解感測器的動作。
- 90 degree wiring, saving space.
/ 專利90度出線設計，節省空間。



◆ Specifications / 規格表：

Output method / 輸出模式	NPN N.O.	PSD0501-N	PS0501-N	SC0501-N
	PNP N.O.	—	—	SC0501-P
Sensing distance / 檢出距離		0.8 mm		
Secure sensing distance / 建議距離		0 to 0.5 mm		
Standard sensing object / 標準檢測物		Iron 5 x 5 x 1mm		
Sensing type / 檢出方式		Shielded / 隔離型		
Description / 外型		Standard M5 / 標準M5		
Hysteresis / 遲滯		≤ 10 % of sensing distance		
Response time / 反應時間		0.5 ms Max.		0.2 ms Max.
Operating voltage / 工作電壓		DC10 ~ 30 V		
Current consumption / 消耗電流		≤ 10 mA no-load		
Load current / 負載電流		100 mA Max.		200 mA Max.
Leakage current / 漏電流		≤ 0.1 mA no-load		
Residual voltage / 殘餘電壓		≤ DC 1.5V (100mA)		≤ DC 2V 200mA
Voltage withstandability / 絕緣耐壓		AC1000V 60Hz for 60 Sec.		
Operating temperature / 工作溫度		-20°C ~ + 60°C		-25°C ~ + 70°C
Protection degree / 防水等級		IP 66		IP 67
Wiring method / 出線方式		Ø3 x 2M / 3 wires		Ø3.5 x 2M x 3 wires
Weight / 重量		Approx. 35g		Approx. 26g

◆ Dimensions / 尺寸圖： (unit:mm)



Inductive / Capacitive Proximity Sensor

PSD18-LA/LV
PSC18-LA/LV
SC18-LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

◆ Characteristic / 特點：

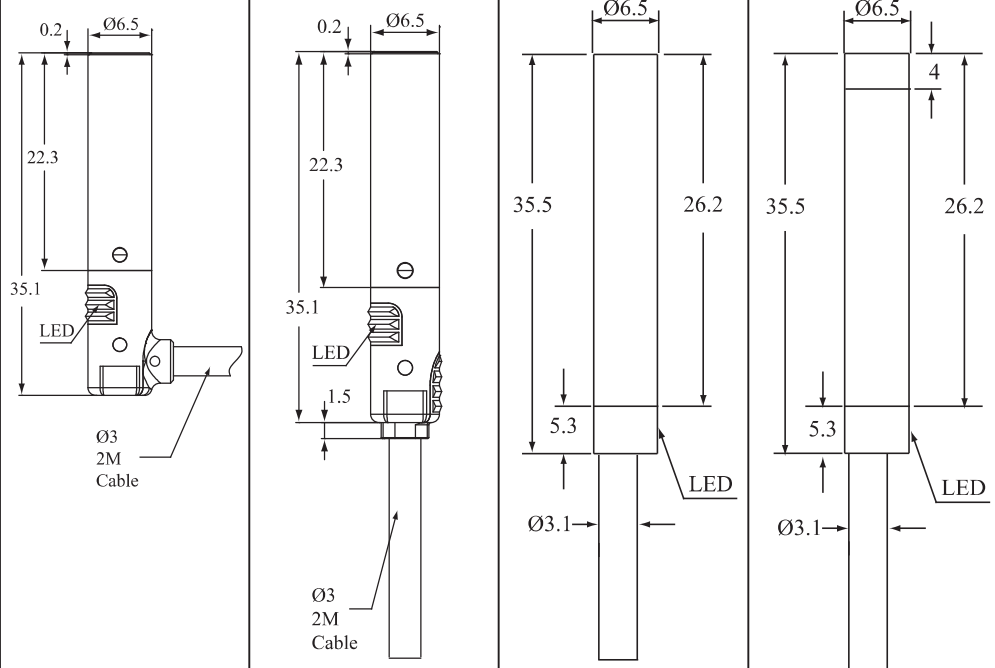
- Large LED indicator, clearly checking working operation.
/ 大面積動作燈，可清晰了解感測器的動作。
- 90 degree wiring, saving space.
/ 專利90度出線設計，節省空間。



◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	PSD0601-N	PSC0601-N	SC0601-N	SC0602-N
	PNP N.O.	PSD0601-P	PSC0601-P	SC0601-P	SC0602-P
Sensing distance / 檢出距離	1.5 mm			2.5 mm	
Secure sensing distance / 建議距離	0 to 1.2 mm			2.0 mm	
Standard sensing object / 標準檢測物	Iron 8 x 8 x1mm				
Sensing type / 檢出方式	Shielded / 隔離型				Unshielded / 非隔離型
Description / 外型	Standard Ø6.5 / 標準Ø6.5				
Hysteresis / 遲滯	≤ 10 % of sensing distance			≤ 20 % of sensing distance	
Response time / 反應時間	1 ms Max.			0.2 ms Max.	
Operating voltage / 工作電壓	DC10 ~ 30 V				
Current consumption / 消耗電流	≤ 8 mA no-load			≤ 10 mA no-load	
Load current / 負載電流	100 mA Max. at DC24V			200 mA Max.	
Leakage current / 漏電流	≤ 1.1 mA no-load			≤ 10 μA no-load	
Residual voltage / 殘餘電壓	≤ DC 2V			≤ DC 1.8V 200mA	
Voltage withstandability / 絕緣耐壓	AC1000V 60Hz for 60 Sec.			AC1000V 60Hz for 60 Sec.	
Operating temperature / 工作溫度	-20℃ ~ + 60℃			-25℃ ~ + 70℃	
Protection degree / 防水等級	IP 66			IP 67	
Wiring method / 出線方式	Ø3 x 2M / 3 wires			Ø3.1 x 2M x 3 wires	
Weight / 重量	Approx. 40g			Approx. 32g	

◆ Dimensions / 尺寸圖： (unit:mm)

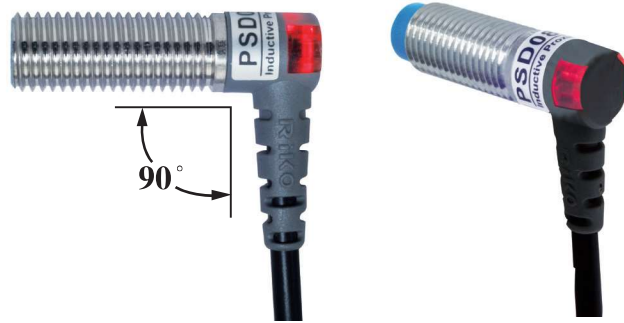


Tubular Inductive Proximity Sensor

M8

Characteristic / 特點：

- 90 degree wiring, saving space.
/ 專利90度出線設計，節省空間。
- Anti-bending connection design.
/ 專利包覆設計，耐彎保護佳。
- DC 2-wire output model available.
/ DC二線式輸出，省配線。
- IP 67 protection rating./ IP67防水等級。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.

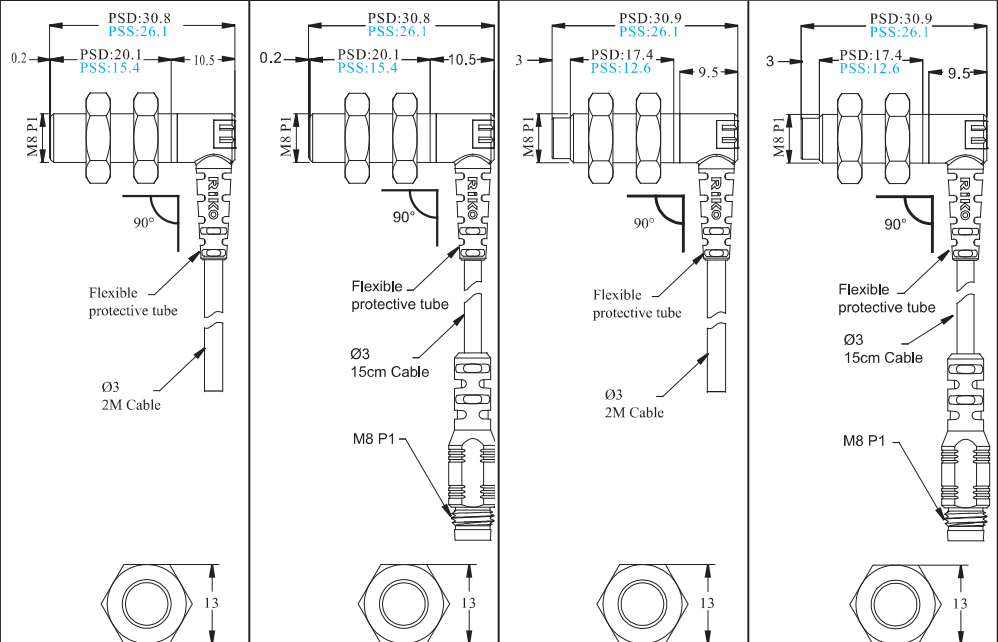
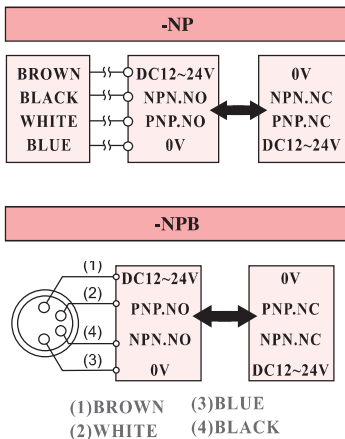


Specifications / 規格表：

Output method 輸出模式	NPN N.O.	PSD0801-N	PSD0801-ND	PSD0803-N	PSD0803-ND
	PNP N.O.	PSD0801-P	PSD0801-PD	PSD0803-P	PSD0803-PD
	NPN N.O./N.C. PNP N.O./N.C.	PSD0801-NP PSS0801-NP	PSD0801-NPB PSS0801-NPB	PSD0803-NP PSS0803-NP	PSD0803-NPB PSS0803-NPB
	2 WIRES N.O.	PSD0801-C	—	PSD0802-C	—
	2 WIRES N.C.	PSD0801-C2	—	PSD0802-C2	—
Sensing distance / 檢出距離		1 mm		3 mm / 2mm	
Secure sensing distance / 建議距離		0 to 0.8 mm		0 to 2.4 mm / 0 to 1.6mm	
Standard sensing object / 標準檢測物		Iron 8 × 8 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M8 / 標準M8			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		1 ms Max.			
Operating voltage / 工作電壓		DC12 ~ 24 V / DC24 V±10%			
Current consumption / 消耗電流		≤ 8 mA no-load (Not for C/ C2)			
Load current / 負載電流		100 mA Max. at DC 24V			
Leakage current / 漏電流		≤ 1.1 mA no-load / ≤ 0.7 mA no-active			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø3x2M/3-wires NP:Ø3x2M /4-wires 2W:Ø3x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式	N/P:Ø3x2M/3-wires NP:Ø3x2M /4-wires 2W:Ø3x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式
Weight / 重量	PSD	Approx.28g	Approx.12g	Approx.28g	Approx.12g
	PSS	Approx.28g	Approx.12g	Approx.28g	Approx.12g

Dimensions / 尺寸圖： (unit:mm)

Wiring diagrams / 接線圖：



Inductive / Capacitive Proximity Sensor

PSD18-LA/LV
PSC18-LA/LV
SC18-LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

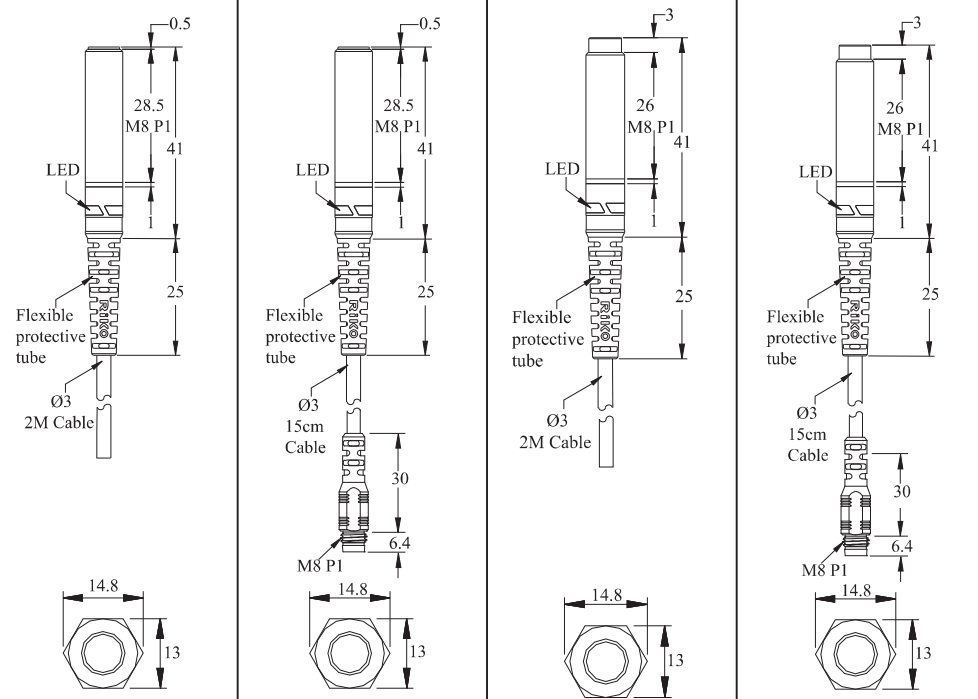
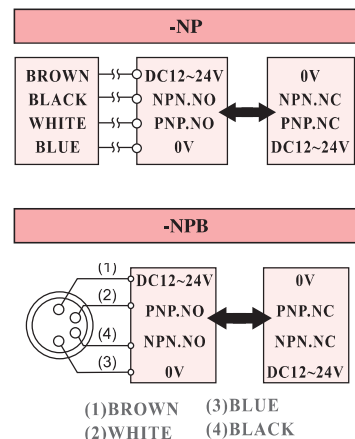
◆ Characteristic / 特點：

- 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。
- DC 2-wire output model available.
/ DC二線式輸出，省配線。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.



◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	PSC0801-N	PSC0801-ND	PSC0802-N	PSC0802-ND
	PNP N.O.	PSC0801-P	PSC0801-PD	PSC0802-P	PSC0802-PD
	NPN N.O./N.C. PNP N.O./N.C.	PSC0801-NP	PSC0801-NPB	PSC0802-NP	PSC0802-NPB
	2 WIRES N.O.	PSC0801-C	—	PSC0802-C	—
	2 WIRES N.C.	PSC0801-C2	—	PSC0802-C2	—
Sensing distance / 檢出距離		1 mm		2 mm	
Secure sensing distance / 建議距離		0 to 0.8 mm		0 to 1.6 mm	
Standard sensing object / 標準檢測物		Iron 8 × 8 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離	
Description / 外型		Standard M8 / 標準M8			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		1 ms Max.			
Operating voltage / 工作電壓		DC12 ~ 24 V / DC24 V±10%			
Current consumption / 消耗電流		≤ 8 mA no-load (Not for C/ C2)			
Load current / 負載電流		100 mA Max. at DC 24V			
Leakage current / 漏電流		≤ 1.1 mA no-load / ≤ 0.7 mA no-active			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø3x2M/3-wires NP:Ø3x2M/4-wires 2W:Ø3x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式	N/P:Ø3x2M/3-wires NP:Ø3x2M/4-wires 2W:Ø3x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式
Weight / 重量		Approx.30g	Approx.12g	Approx.30g	Approx.12g

◆ Dimensions / 尺寸圖：
(unit:mm)◆ Wiring diagrams
/ 接線圖：

Tubular Inductive Proximity Sensor

M8

◆ Characteristic / 特點：

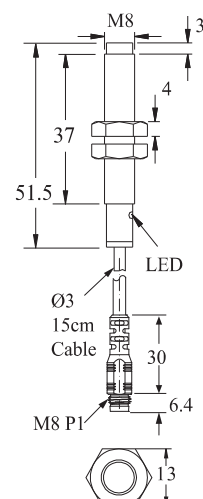
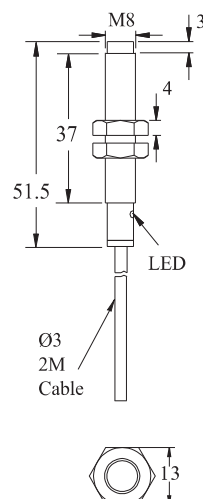
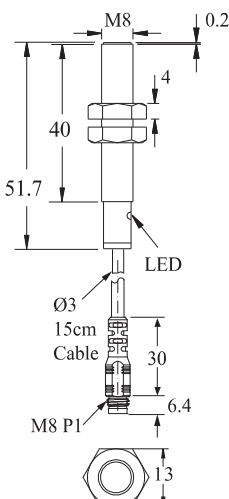
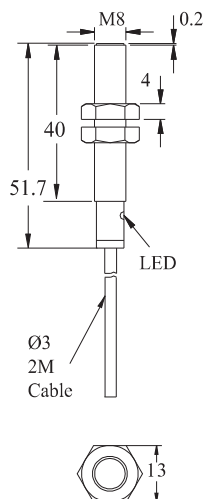
- Standard models for metal detection.
/ 標準型含鐵金屬檢測有無。
- Assorted variety：Short body/ Long body available.
/ 廣泛的選擇性，短本體、長本體皆具備。



◆ Specifications / 規格表：

Output method 輸出模式	NPN N.O.	SC0801-N	SC0801-ND	SC0802-N	SC0802-ND
	PNP N.O.	SC0801-P	SC0801-PD	SC0802-P	SC0802-PD
	NPN N.O./N.C. PNP N.C./N.O.	—	—	—	—
	SCR N.O.	—	—	—	—
	SCR N.C.	—	—	—	—
Sensing distance / 檢出距離		1 mm		2 mm	
Secure sensing distance / 建議距離		0 to 0.8 mm		0 to 1.6 mm	
Standard sensing object / 標準檢測物		Iron 8 × 8 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M8 / 標準M8			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		1 ms Max.			
Operating voltage / 工作電壓		DC12 ~ 24 V			
Current consumption / 消耗電流		≤ 8 mA no-load			
Load current / 負載電流		100 mA Max at DC 24V			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 1.5V			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 66			
Wiring method / 出線方式		Pre-wired Ø3 x 2M / 3-wires	M8 pigtailed type / M8接頭15cm電線式	Pre-wired Ø3 x 2M / 3-wires	M8 pigtailed type / M8接頭15cm電線式
Weight / 重量		Approx.30g	Approx.12g	Approx.30g	Approx.12g

◆ Dimensions / 尺寸圖： (unit:mm)



Inductive / Capacitive Proximity Sensor

PSD18-LA/LV
PSC18-LA/LV
SC18-LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

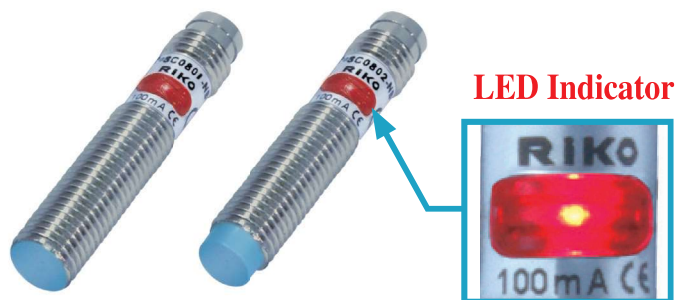
JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

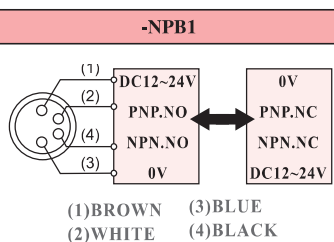
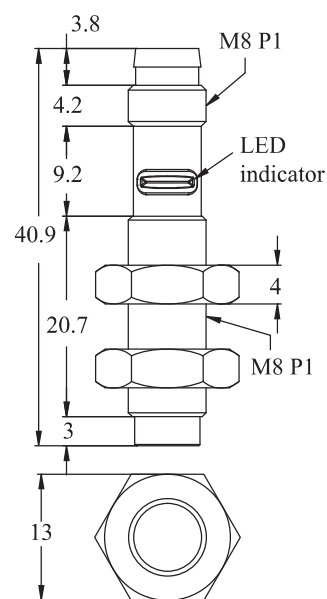
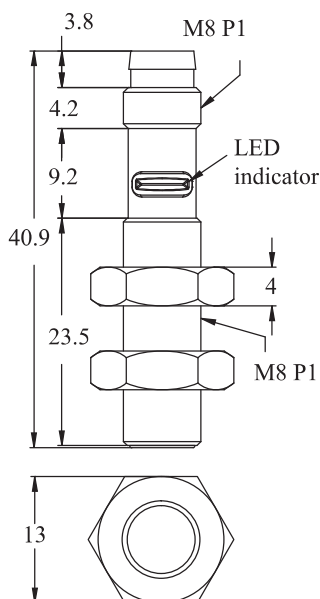
◆ Characteristic / 特點：

- Large LED indicator, clearly checking working operation.
/ 專利大面積動作燈，可清晰了解感測器的動作。
- M8 4pin connector model available.
/ M8 4pin接頭外型，同步於歐、美、日。



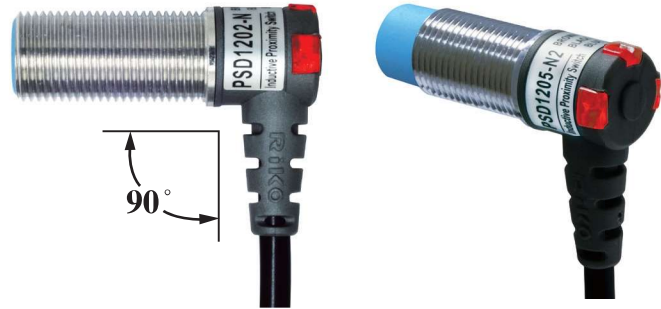
◆ Specifications / 規格表：

Output method 輸出模式	NPN N.O.	PSC0801-NB1	PSC0802-NB1
	PNP N.O.	PSC0801-PB1	PSC0802-PB1
	NPN N.O./N.C. PNP N.O./N.C.	PSC0801-NPB1	PSC0802-NPB1
	2 WIRES N.O.	—	—
	2 WIRES N.C.	—	—
Sensing distance / 檢出距離	1 mm		2 mm
Secure sensing distance / 建議距離	0 to 0.8 mm		0 to 1.6 mm
Standard sensing object / 標準檢測物	Iron 8 × 8 × 1 mm		
Sensing type / 檢出方式	Shielded / 隔離型		Unshielded / 非隔離型
Description / 外型	Standard M8 / 標準M8		
Hysteresis / 遲滯	≤ 10 % of sensing distance		
Response time / 反應時間	1 ms Max.		
Operating voltage / 工作電壓	DC12 ~ 24 V		
Current consumption / 消耗電流	≤ 8 mA no-load		
Load current / 負載電流	100 mA Max. at DC 24V		
Leakage current / 漏電流	≤ 1.1 mA no-load		
Residual voltage / 殘餘電壓	≤ DC 2V		
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 66		
Wiring method / 出線方式	M8 plug-in connector type / M8接頭		
Weight / 重量	Approx.6g		Approx.6g

◆ Dimensions / 尺寸圖：
(unit:mm)

◆ Characteristic / 特點：

- 90 degree wiring, saving space.
/ 專利90度出線設計，節省空間。
- Anti-bending connection design.
/ 專利包覆設計，耐彎保護佳。
- DC 2-wire output model available.
/ DC二線式輸出，省配線。
- IP 67 protection rating./ IP67防水等級。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.

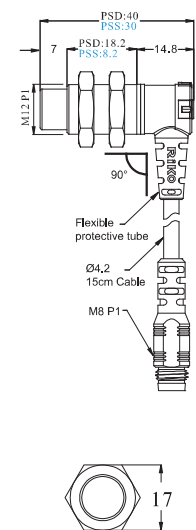
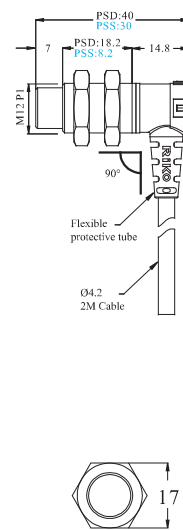
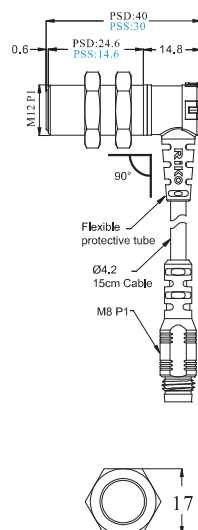
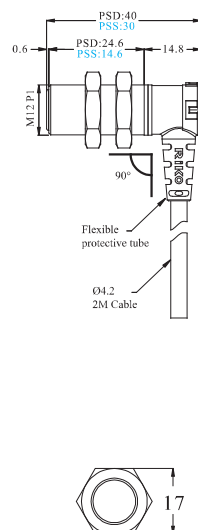
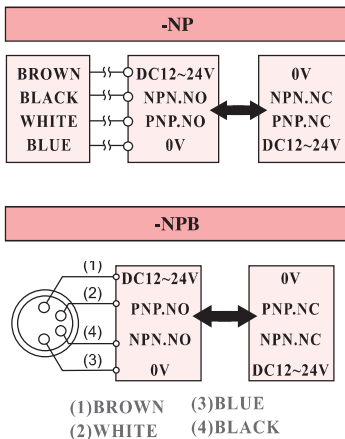


◆ Specifications / 規格表：

Output method 輸出模式	NPN N.O.	PSD1202-N	PSD1202-ND	PSD1205-N	PSD1205-ND
	PNP N.O.	PSD1202-P	PSD1202-PD	PSD1205-P	PSD1205-PD
	NPN N.O./N.C. PNP N.O./N.C.	PSD1202-NP PSS1202-NP	PSD1202-NPB PSS1202-NPB	PSD1205-NP PSS1205-NP	PSD1205-NPB PSS1205-NPB
	2 WIRES N.O.	PSD1202-C	—	PSD1205-C	—
	2 WIRES N.C.	PSD1202-C2	—	PSD1205-C2	—
Sensing distance / 檢出距離		2 mm		5 mm	
Secure sensing distance / 建議距離		0 to 1.6 mm		0 to 4.0 mm	
Standard sensing object / 標準檢測物		Iron 12 × 12 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M12 / 標準M12			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		1 ms Max.			
Operating voltage / 工作電壓		DC 12 ~ 24 V / DC 24 V±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			
Leakage current / 漏電流		≤ 1.1 mA no-load / ≤ 0.7 mA no-active			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø4.2x2M/3-wires NP:Ø4.2x2M /4-wires 2W:Ø4.2x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式	N/P:Ø4.2x2M/3-wires NP:Ø4.2x2M /4-wires 2W:Ø4.2x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式
Weight / 重量		Approx.60g	Approx.20g	Approx.56g	Approx.16g

◆ Dimensions / 尺寸圖： (unit:mm)

◆ Wiring diagrams / 接線圖：



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。
- DC 2-wire output model available.
/ DC二線式輸出，省配線。
- NP model: NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.

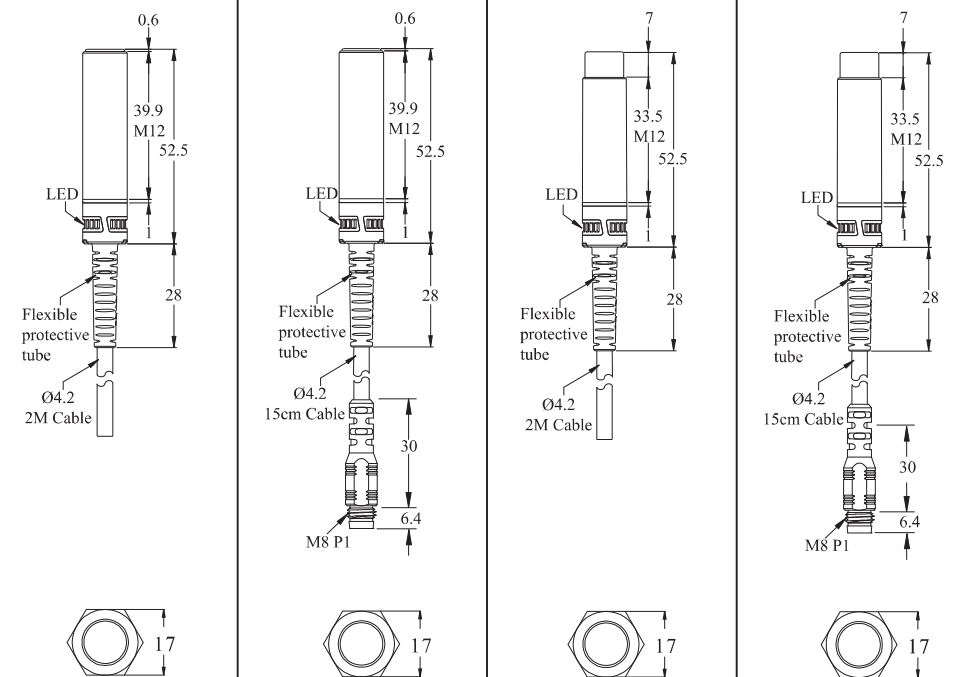
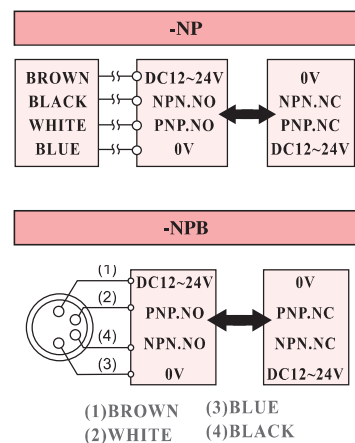


Specifications / 規格表：

Output method 輸出模式	NPN N.O.	PSC1203-N	PSC1203-ND	PSC1206-N	PSC1206-ND
	PNP N.O.	PSC1203-P	PSC1203-PD	PSC1206-P	PSC1206-PD
	NPN N.O./N.C. PNP N.O./N.C.	PSC1202-NP	PSC1202-NPB	PSC1205-NP	PSC1205-NPB
	2 WIRES N.O.	PSC1202-C	—	PSC1205-C	—
	2 WIRES N.C.	PSC1202-C2	—	PSC1205-C2	—
Sensing distance / 檢出距離		3 mm / 2 mm / 2 mm		6 mm / 5 mm / 5 mm	
Secure sensing distance / 建議距離		0 to 2.4 mm / 0 to 1.6 mm / 0 to 1.6 mm		0 to 4.8 mm / 0 to 4 mm / 0 to 4 mm	
Standard sensing object / 標準檢測物		Iron 12 × 12 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離	
Description / 外型		Standard M12 / 標準M12			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		1 ms Max.			
Operating voltage / 工作電壓		DC 12 ~ 24 V / DC 24 V±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			
Leakage current / 漏電流		≤ 1.1 mA no-load / ≤ 0.7 mA no-active			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø4.2x2M/3-wires NP:Ø4.2x2M/4-wires 2W:Ø4.2x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式	N/P:Ø4.2x2M/3-wires NP:Ø4.2x2M/4-wires 2W:Ø4.2x2M/2-wires	M8 pigtailed type / M8接頭15cm電線式
Weight / 重量		Approx.64g	Approx.48.4g	Approx.65g	Approx.49.4g

Dimensions / 尺寸圖： (unit:mm)

Wiring diagrams / 接線圖：



Tubular Inductive Proximity Sensor

M12

◆ Characteristic / 特點：

- Standard models for metal detection.
/ 標準型含鐵金屬檢測有無。
- Assorted variety：Short body/ Long body/
AC or DC available.
/ 廣泛的選擇性，短本體、長本體、直流、
交流型皆具備。



◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	SC1202-N SCS1202-N SCL1202-N	SC1202-ND SCS1202-ND SCL1202-ND	SC1204-N SCS1204-N SCL1204-N	SC1204-ND SCS1204-ND SCL1204-ND
	PNP N.O.	SC1202-P SCS1202-P SCL1202-P	SC1202-PD SCS1202-PD SCL1202-PD	SC1204-P SCS1204-P SCL1204-P	SC1204-PD SCS1204-PD SCL1204-PD
	NPN N.O./N.C. PNP N.C./N.O.	SC1202-KP2	—	SC1204-KP2	—
	SCR N.O.	SC1202-A	—	SC1204-A	—
	SCR N.C.	SC1202-A2	—	SC1204-A2	—
Sensing distance / 檢出距離		2 mm		4 mm	
Secure sensing distance / 建議距離		0 to 1.6 mm		0 to 3.2 mm	
Standard sensing object / 標準檢測物		Iron 12 x 12 x 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M12 / 標準M12			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		DC Type 1 ms Max. or AC Type 50ms			
Operating voltage / 工作電壓		DC 12 ~ 24V or AC90 ~ 260 V			
Current consumption / 消耗電流		DC : ≤ 8 mA no-load or AC : 2 mA Max.			
Load current / 負載電流		DC : 100 mA Max. at DC 24V or AC : 5 ~ 300 mA Max.			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 1.5V			
Insulation resistance / 隔離阻抗		20MΩ min. (DC500V)			
Voltage withstandability / 絕緣耐壓		AC1000V 60Hz for 60Sec.			
Operating temperature / 工作溫度		-20℃ ~ + 60℃			
Protection degree / 防水等級		IP 66			
Wiring method / 出線方式		N/P : Ø4.2x 2M /3-wires KP2 : Ø4.2x2M /4-wires AC : Ø4.2x2M /-wires	M8 pigtailed type / M8接頭15cm電線式	N/P : Ø4.2x 2M /3-wire KP2 : Ø4.2x2M /4-wires AC : Ø4.2x2M /2-wires	M8 pigtailed type / M8接頭15cm電線式
Weight / 重量	SC	Approx. 65g	Approx. 15g	Approx. 65g	Approx. 15g
	SCL	Approx. 70g	Approx. 20g	Approx. 70g	Approx. 20g
	SCS	Approx. 60g	Approx. 15g	Approx. 60g	Approx. 15g
◆ Dimensions / 尺寸圖 : (unit:mm)					
◆ Wiring diagrams / 接線圖 :					

Inductive / Capacitive Proximity Sensor

PSD18-LA/LV
PSC18-LA/LV
SC18-LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

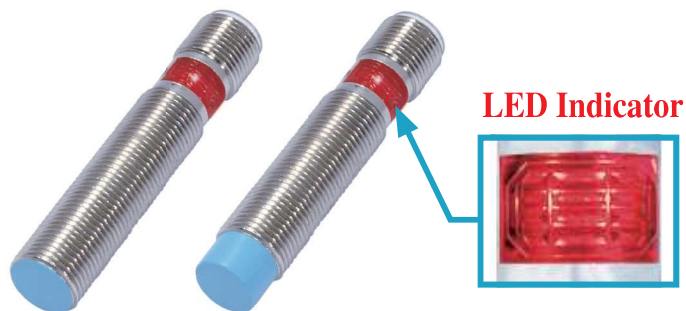
JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

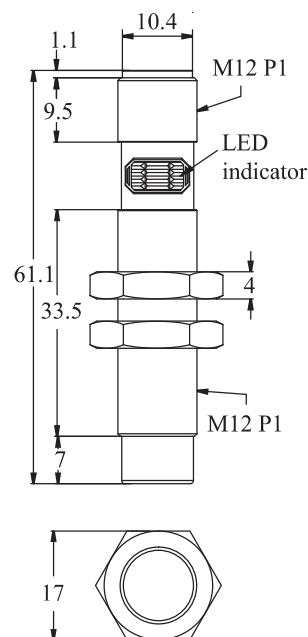
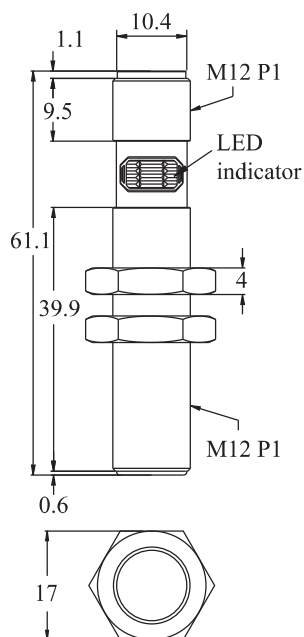
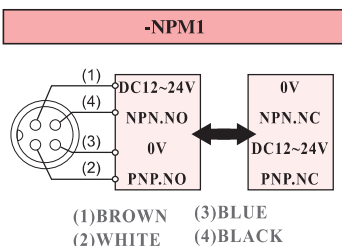
◆ Characteristic / 特點：

- Large LED indicator, clearly checking working operation.
/ 專利大面積動作燈，可清晰了解感測器的動作。
- M12 4pin connector model available.
/ M12 4pin接頭外型，同步於歐、美、日。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.



◆ Specifications / 規格表：

Output method 輸出模式	NPN N.O.	PSC1203-NM1	PSC1206-NM1
	PNP N.O.	PSC1203-PM1	PSC1206-PM1
	NPN N.O./N.C. PNP N.O./N.C.	PSC1203-NPM1	PSC1206-NPM1
	2 WIRES N.O.	—	—
	2 WIRES N.C.	—	—
Sensing distance / 檢出距離	3 mm		6 mm
Secure sensing distance / 建議距離	0 to 2.4 mm		0 to 4.8 mm
Standard sensing object / 標準檢測物	Iron 12 × 12 × 1 mm		
Sensing type / 檢出方式	Shielded / 隔離型		Unshielded / 非隔離型
Description / 外型	Standard M12 / 標準M12		
Hysteresis / 遲滯	≤ 10 % of sensing distance		
Response time / 反應時間	1 ms Max.		
Operating voltage / 工作電壓	DC12 ~ 24 V		
Current consumption / 消耗電流	≤ 14 mA no-load		
Load current / 負載電流	100 mA Max. at DC 24V		
Leakage current / 漏電流	≤ 1.1 mA no-load		
Residual voltage / 殘餘電壓	≤ DC 2V		
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℃ ~ + 60℃		
Protection degree / 防水等級	IP 66		
Wiring method / 出線方式	M12 plug-in connector type / M12 接頭		
Weight / 重量	Approx.18g		Approx.16g

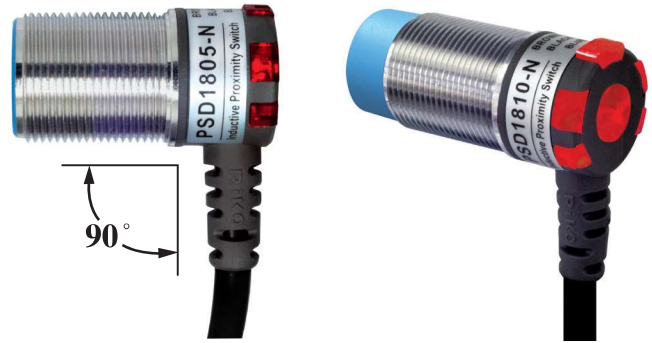
◆ Dimensions / 尺寸圖：
(unit:mm)◆ Wiring diagrams
/ 接線圖：

Tubular Inductive Proximity Sensor

M18

◆ Characteristic / 特點：

- 90 degree wiring, saving space.
/ 專利90度出線設計，節省空間。
- Large LED indicator, clearly checking working operation.
/ 大面積動作燈，可清晰了解感測器的動作。
- IP 67 protection rating./ IP67防水等級。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.
- Anti-bending connection design.
/ 專利包覆設計，耐彎保護佳。

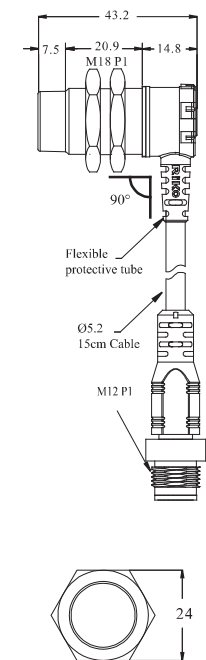
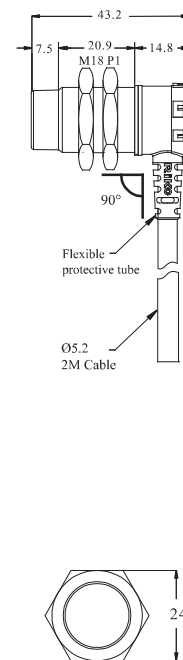
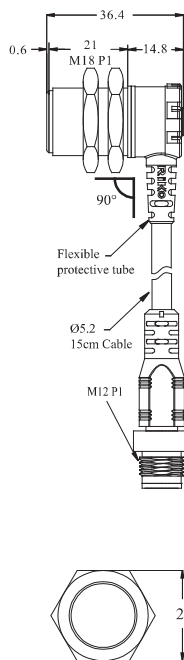
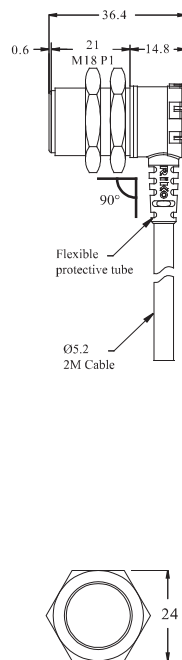
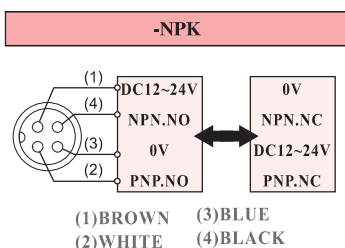
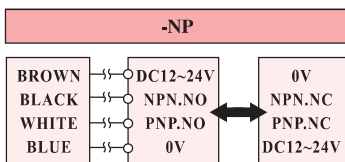


◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	PSD1805-N	PSD1805-NK	PSD1810-N	PSD1810-NK
	PNP N.O.	PSD1805-P	PSD1805-PK	PSD1810-P	PSD1810-PK
	NPN N.O./N.C. PNP N.O./N.C.	PSD1805-NP	PSD1805-NPK	PSD1808-NP	PSD1808-NPK
	2 WIRES N.O.	—	—	—	—
	2 WIRES N.C.	—	—	—	—
Sensing distance / 檢出距離		5 mm / 5 mm		9 mm / 8 mm	
Secure sensing distance / 建議距離		0 to 4.0 mm / 0 to 4.0 mm		0 to 7.2 mm / 0 to 6.4 mm	
Standard sensing object / 標準檢測物		Iron 18× 18 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M18 / 標準M18			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		2 ms Max.			
Operating voltage / 工作電壓		DC 12 ~ 24 V			
Current consumption / 消耗電流		≤ 14 mA no-load			
Load current / 負載電流		100 mA Max. at DC 24V			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 2V			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M /4-wires	M12 pigtailed type / M12接頭15cm電線式	N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M /4-wires	M12 pigtailed type / M12接頭15cm電線式
Weight / 重量		Approx.86g	Approx.38g	Approx.86g	Ap prox.38g

◆ Dimensions / 尺寸圖： (unit:mm)

◆ Wiring diagrams / 接線圖：



Inductive / Capacitive Proximity Sensor

PSD18-
LA/LV
PSC18-
LA/LV
SC18-
LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

◆ 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。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.

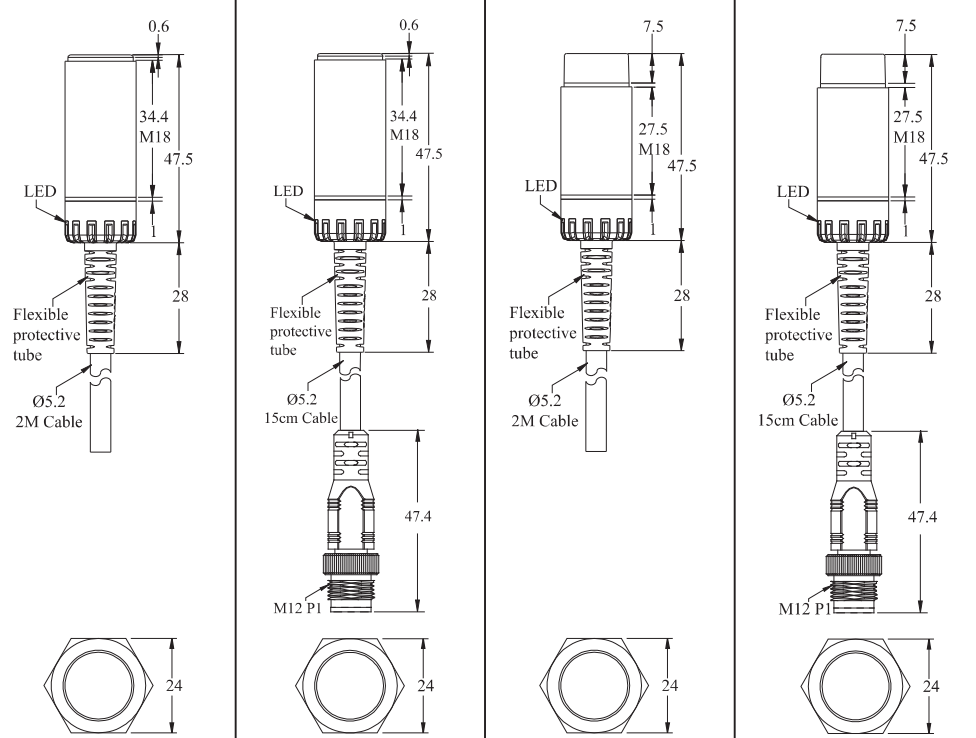
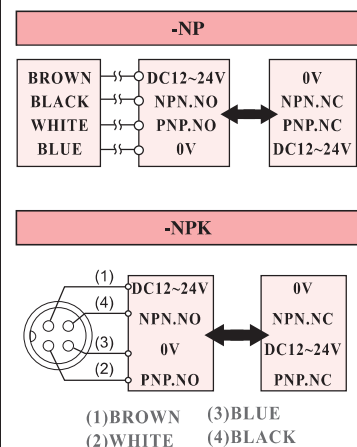


◆ Specifications / 規格表：

Output method 輸出模式	NPN N.O.	PSC1806-N	PSC1806-NK	PSC1812-N	PSC1812-NK
	PNP N.O.	PSC1806-P	PSC1806-PK	PSC1812-P	PSC1812-PK
	NPN N.O./N.C. PNP N.O./N.C.	PSC1805-NP	PSC1805-NPK	PSC1808-NP	PSC1808-NPK
	2 WIRES N.O.	—	—	—	—
	2 WIRES N.C.	—	—	—	—
Sensing distance / 檢出距離		6 mm / 5 mm		12 mm / 8 mm	
Secure sensing distance / 建議距離		0 to 4.8 mm / 0 to 4.0 mm		0 to 9.6 mm / 0 to 6.4 mm	
Standard sensing object / 標準檢測物		Iron 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			
Response time / 反應時間		2 ms Max.			
Operating voltage / 工作電壓		DC 12 ~ 24 V			
Current consumption / 消耗電流		≤ 14 mA no-load			
Load current / 負載電流		100 mA Max. at DC 24V			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 2V			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M/4-wires	M12 pigtailed type / M12接頭15cm電線式	N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M/4-wires	M12 pigtailed type / M12接頭15cm電線式
Weight / 重量		Approx.93g	Approx.40.5g	Approx.92g	Ap prox.39.5g

◆ Dimensions / 尺寸圖： (unit:mm)

◆ Wiring diagrams / 接線圖：



Tubular Inductive Proximity Sensor

M18

◆ Characteristic / 特點：

- Standard models for metal detection.
/ 標準型含鐵金屬檢測有無。
- Assorted variety：Short body/ Long body/
AC or DC available.
/ 廣泛的選擇性，短本體、長本體、直流、
交流型皆具備。

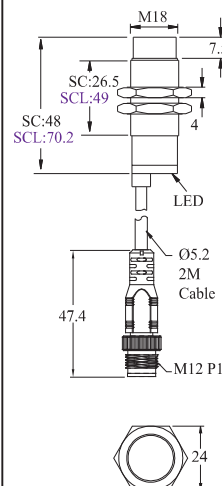
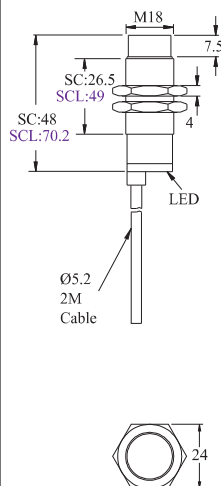
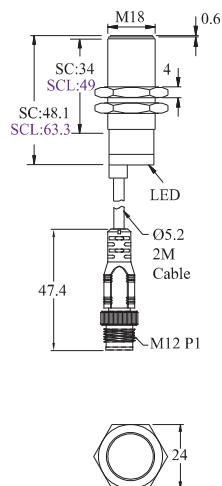
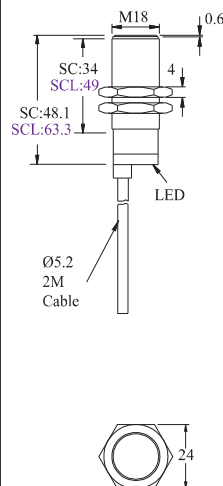
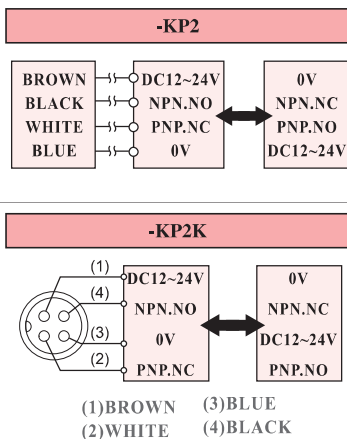


◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	SC1805-N SCL1805-N	SC1805-NK SCL1805-NK	SC1808-N SCL1808-N	SC1808-NK SCL1808-NK
	PNP N.O.	SC1805-P SCL1805-P	SC1805-PK SCL1805-PK	SC1808-P SCL1808-P	SC1808-PK SCL1808-PK
	NPN N.O./N.C. PNP N.C./N.O.	SC1805-KP2	SC1805-KP2K	SC1808-KP2	SC1808-KP2K
	SCR N.O.	SC1805-A	SC1805-AK	SC1808-A	SC1808-AK
	SCR N.C.	SC1805-A2	SC1805-A2K	SC1808-A2	SC1808-A2K
Sensing distance / 檢出距離		5 mm		8 mm	
Secure sensing distance / 建議距離		0 to 4.0 mm		0 to 6.4 mm	
Standard sensing object / 標準檢測物		Iron 18 x 18 x 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M12 / 標準M12			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		DC Type 2 ms Max. or AC Type 50ms			
Operating voltage / 工作電壓		DC 12 ~ 24V or AC 90 ~ 260V			
Current consumption / 消耗電流		DC : ≤ 8 mA no-load / AC : 2 mA Max.			
Load current / 負載電流		DC : 100 mA Max. at DC 24V or AC : 5 ~ 300 mA Max.			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 1.5V			
Insulation resistance / 隔離阻抗		20M Ω 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 66			
Wiring method / 出線方式		N/P : Ø5.2x 2M /3-wires KP2 :Ø5.2x2M /4-wires AC :Ø5.2x2M /-wires	M12 pigtailed type / M12接頭15cm電線 式	N/P : Ø5.2x 2M /3-wire KP2 :Ø5.2x2M /4-wires AC :Ø5.2x2M /2-wires	M12 pigtailed type / M12接頭15cm電線 式
Weight / 重量	SC	Approx. 90g	Approx. 30g	Approx. 96g	Approx. 35g
	SCL	Approx. 115g	Approx. 55g	Approx. 116g	Approx. 55g

◆ Dimensions / 尺寸圖：

◆ Wiring diagrams / 接線圖：



Inductive / Capacitive Proximity Sensor

PSD18-LA/LV
PSC18-LA/LV
SC18-LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

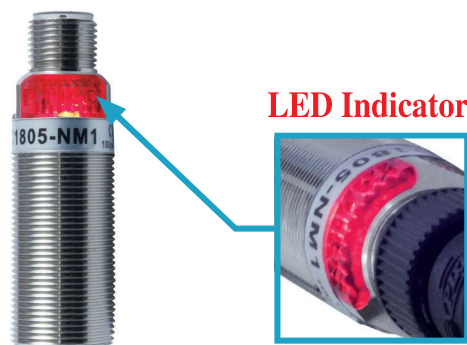
JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

◆ Characteristic / 特點：

- Large LED indicator, clearly checking working operation.
/ 專利大面積動作燈，可清晰了解感測器的動作。
- Longer sensing distance.
/ 檢測距離加長，方便使用。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.。

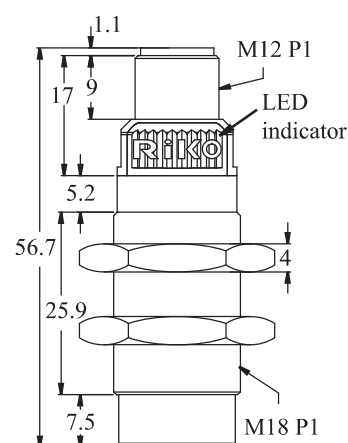
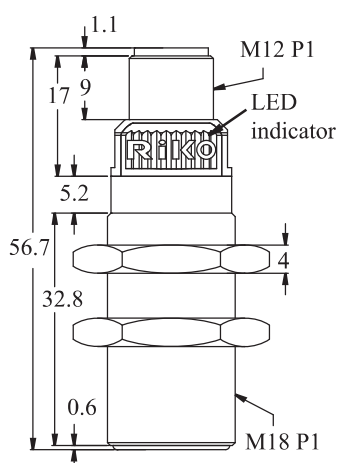


LED Indicator

◆ Specifications / 規格表：

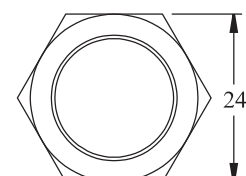
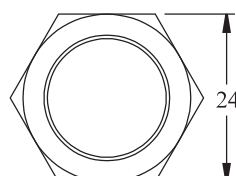
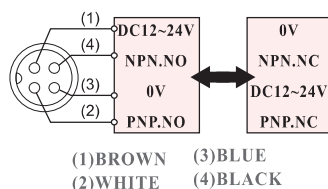
Output method 輸出模式	NPN N.O.	PSC1805-NM1	PSC1812-NM1
	PNP N.O.	PSC1805-PM1	PSC1812-PM1
	NPN N.O./N.C. PNP N.O./N.C.	PSC1805-NPM1	PSC1812-NPM1
	2 WIRES N.O.	—	—
	2 WIRES N.C.	—	—
Sensing distance / 檢出距離	5 mm		12 mm
Secure sensing distance / 建議距離	0 to 4 mm		0 to 9.6 mm
Standard sensing object / 標準檢測物	Iron 18 × 18 × 1 mm		
Sensing type / 檢出方式	Shielded / 隔離型		Unshielded / 非隔離型
Description / 外型	Standard M18 / 標準M18		
Hysteresis / 遲滯	≤ 10 % of sensing distance		
Response time / 反應時間	2 ms Max.		
Operating voltage / 工作電壓	DC12 ~ 24 V		
Current consumption / 消耗電流	≤ 14 mA no-load		
Load current / 負載電流	100 mA Max. at DC 24V		
Leakage current / 漏電流	≤ 1.1 mA no-load		
Residual voltage / 殘餘電壓	≤ DC 2V		
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℃ ~ + 60℃		
Protection degree / 防水等級	IP 66		
Wiring method / 出線方式	M12 plug-in connector type / M12 接頭		
Weight / 重量	Approx.30g		Approx.30g

◆ Dimensions / 尺寸圖： (unit:mm)



◆ Wiring diagrams / 接線圖：

-NPM1



◆ Characteristic / 特點：

- 90 degree wiring, saving space.
/ 專利90度出線設計，節省空間。
- Large LED indicator, clearly checking working operation.
/ 大面積動作燈，可清晰了解感測器的動作。
- IP 67 protection rating./ IP67防水等級。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.
- Anti-bending connection design.
/ 專利包覆設計，耐彎保護佳。

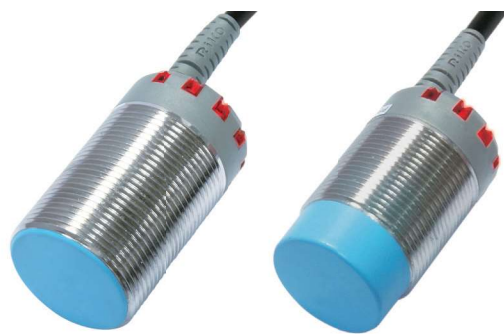


◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	PSD3010-N	PSD3010-NK	PSD3018-N	PSD3018-NK
	PNP N.O.	PSD3010-P	PSD3010-PK	PSD3018-P	PSD3018-PK
	NPN N.O./N.C. PNP N.O./N.C.	PSD3010-NP	PSD3010-NPK	PSD3018-NP	PSD3018-NPK
	2 WIRES N.O.	—	—	—	—
	2 WIRES N.C.	—	—	—	—
Sensing distance / 檢出距離		10 mm		18 mm	
Secure sensing distance / 建議距離		0 to 8 mm		0 to 14.4 mm	
Standard sensing object / 標準檢測物		Iron 30× 30 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M30 / 標準M30			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		3.3 ms Max.			
Operating voltage / 工作電壓		DC 12 ~ 24 V			
Current consumption / 消耗電流		≤ 14 mA no-load			
Load current / 負載電流		100 mA Max. at DC 24V			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 2V			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M /4-wires	M12 pigtailed type / M12接頭15cm電線式	N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M /4-wires	M12 pigtailed type / M12接頭15cm電線式
Weight / 重量		Approx.145g	Approx.95g	Approx.145g	Ap prox.95g
◆ Dimensions / 尺寸圖： (unit:mm)					
◆ Wiring diagrams / 接線圖：					

◆ 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。
- M30 sensing distance up to 25mm.
/ M30型超長檢測距離達25mm。
- 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。
- NP model: NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.



◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	PSC3012-N	PSC3012-NK	PSC3018-N	PSC3018-NK
	PNP N.O.	PSC3012-P	PSC3012-PK	PSC3018-P	PSC3018-PK
	NPN N.O./N.C. PNP N.O./N.C.	PSC3010-NP	PSC3010-NPK	PSC3018-NP PSC3025-NP	PSC3018-NPK PSC3025-NPK
	2 WIRES N.O.	—	—	—	—
	2 WIRES N.C.	—	—	—	—
Sensing distance / 檢出距離		12mm / 10mm		18mm / 18mm / 25mm	
Secure sensing distance / 建議距離		0 to 9.6mm / 0 to 8mm		0 to 14.4 mm / 0 to 14.4mm / 0 to 20mm	
Standard sensing object / 標準檢測物		Iron 30× 30 × 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離	
Description / 外型		Standard M30 / 標準M30			
Hysteresis / 遲滯		≤ 10 % of sensing distance / ≤ 15 % of sensing distance			
Response time / 反應時間		3.3 ms Max. / 5 ms Max.			
Operating voltage / 工作電壓		DC 12 ~ 24 V			
Current consumption / 消耗電流		≤ 16 mA no-load / ≤ 8 mA no-load			
Load current / 負載電流		100 mA Max. at DC 24V			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 2V / ≤ DC 1.5V			
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℃ ~ + 60℃			
Protection degree / 防水等級		IP 67			
Wiring method / 出線方式		N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M/4-wires	M12 pigtailed type / M12接頭15cm電線式	N/P:Ø5.2x2M/3-wires NP:Ø5.2x2M/4-wires	M12 pigtailed type / M12接頭15cm電線式
Weight / 重量		Approx.141g	Approx.88.5g	Approx.129g	Approx.76.5g
◆ Dimensions / 尺寸圖： (unit:mm)					
◆ Wiring diagrams / 接線圖：		-NP BROWN DC12~24V BLACK NPN.NO WHITE PNP.NO BLUE 0V 0V NPN.NC PNP.NC DC12~24V -NPK (1) DC12~24V (4) NPN.NO (3) 0V (2) PNP.NO 0V NPN.NC DC12~24V PNP.NC (1)BROWN (3)BLUE (2)WHITE (4)BLACK			

Tubular Inductive Proximity Sensor

M30

◆ Characteristic / 特點：

- Standard models for metal detection.
/ 標準型含鐵金屬檢測有無。
- Assorted variety：Short body/ Long body/ AC or DC available.
/ 廣泛的選擇性，短本體、長本體、直流、交流型皆具備。

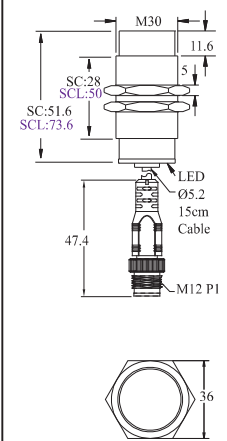
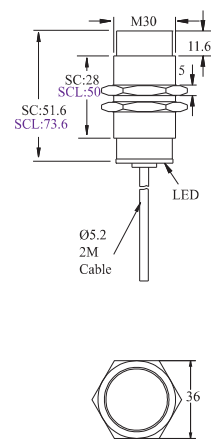
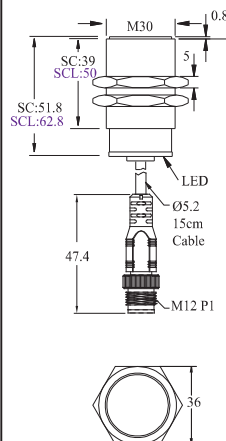
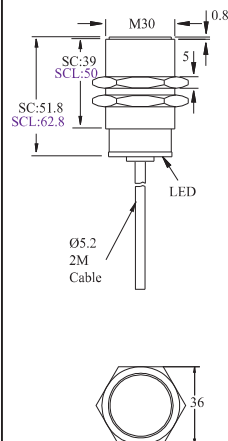
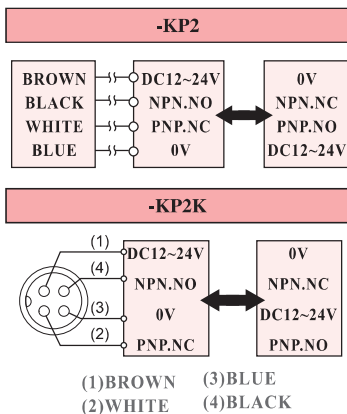


◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	SC3010-N SCL3010-N	SC3010-NK SCL3010-NK	SC3015-N SCL3015-N	SC3015-NK SCL3015-NK
	PNP N.O.	SC3010-P SCL3010-P	SC3010-PK SCL3010-PK	SC3015-P SCL3015-P	SC3015-PK SCL3015-PK
	NPN N.O./N.C. PNP N.O./N.C.	SC3010-KP2	SC3010-KP2K	SC3015-KP2	SC3015-KP2K
	SCR N.O.	SC3010-A	SC3010-AK	SC3015-A	SC3015-AK
	SCR N.C.	SC3010-A2	SC3010-A2K	SC3015-A2	SC3015-A2K
Sensing distance / 檢出距離		10 mm		15 mm	
Secure sensing distance / 建議距離		0 to 8 mm		0 to 12 mm	
Standard sensing object / 標準檢測物		Iron 30 x 30 x 1 mm			
Sensing type / 檢出方式		Shielded / 隔離型		Unshielded / 非隔離型	
Description / 外型		Standard M30 / 標準M30			
Hysteresis / 遲滯		≤ 10 % of sensing distance			
Response time / 反應時間		DC Type 3.3 ms Max. or AC Type 50ms		DC Type 3.3 ms Max. or AC Type 100ms	
Operating voltage / 工作電壓		DC 12 ~ 24V or AC 90 ~ 260V			
Current consumption / 消耗電流		DC : ≤ 8 mA no-load or AC : 2 mA Max.			
Load current / 負載電流		DC : 100 mA Max. at DC 24V or AC : 5 ~ 300 mA Max.			
Leakage current / 漏電流		≤ 1.1 mA no-load			
Residual voltage / 殘餘電壓		≤ DC 1.5V			
Insulation resistance / 隔離阻抗		20M Ω min. (DC500V)			
Voltage withstandability / 絕緣耐壓		AC1000V 60Hz for 60 Sec.			
Operating temperature / 工作溫度		-20℃ ~ + 60℃			
Protection degree / 防水等級		IP 66			
Wiring method / 出線方式		N/P : Ø5.2x 2M /3-wires KP2 :Ø5.2x2M /4-wires AC :Ø5.2x2M /-wires	M12 pigtailed type / M12接頭15cm電線 式	N/P : Ø5.2x 2M /3-wire KP2 :Ø5.2x2M /4-wires AC :Ø5.2x2M /2-wires	M12 pigtailed type / M12接頭15cm電線 式
Weight / 重量	SC	Approx. 145g	Approx. 90g	Approx. 135g	Approx. 80g
	SCL	Approx. 165g	Approx. 110g	Approx. 170g	Approx. 115g

◆ Dimensions / 尺寸圖： (unit:mm)

◆ Wiring diagrams / 接線圖：



Inductive / Capacitive Proximity Sensor

PSD18-LA/LV
PSC18-LA/LV
SC18-LA/LV

HPD
HPS

Ø4
M5
Ø6
M8
M12
M18
M30

JN
JND
KND
PN
PND
RN
SN
TSN

SID
SIR
SIA

PKC
KC
KCM
KCP

◆ Characteristic / 特點：

- Large LED indicator, clearly checking working operation.
/ 專利大面積動作燈，可清晰了解感測器的動作。
- M12 4pin connector model available.
/ M12 4pin接頭外型，同步於歐、美、日。
- NP model：NPN+PNP NO/NC 4-in-1 outputs.
/ 新型NP電路：NPN/PNP NO/NC All in one.

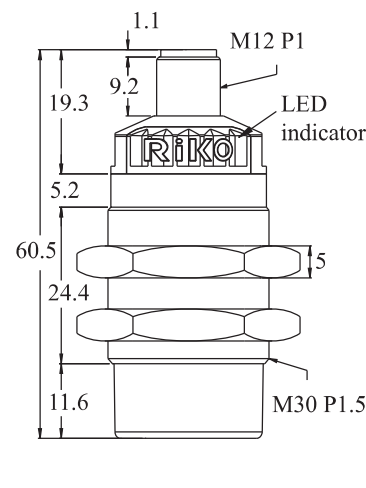
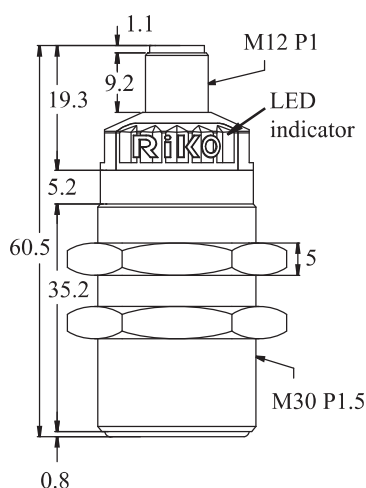
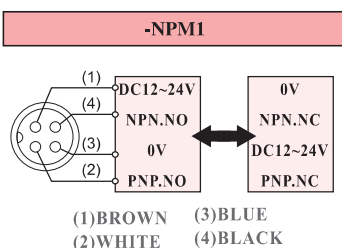


LED Indicator



◆ Specifications / 規格表：

Output method /輸出模式	NPN N.O.	PSC3012-NM1	PSC3018-NM1
	PNP N.O.	PSC3012-PM1	PSC3018-PM1
	NPN N.O./N.C. PNP N.O./N.C.	PSC3012-NPM1	PSC3018-NPM1
	2 WIRES N.O.	—	—
	2 WIRES N.C.	—	—
Sensing distance / 檢出距離	12 mm		18 mm
Secure sensing distance / 建議距離	0 to 9.6 mm		0 to 14.4 mm
Standard sensing object / 標準檢測物	Iron 30 × 30 × 1 mm		
Sensing type / 檢出方式	Shielded / 隔離型		Unshielded / 非隔離型
Description / 外型	Standard M30/ 標準M30		
Hysteresis / 遲滯	≤ 10 % of sensing distance		
Response time / 反應時間	3.3 ms Max.		
Operating voltage / 工作電壓	DC12 ~ 24 V		
Current consumption / 消耗電流	≤ 16 mA no-load		
Load current / 負載電流	100 mA Max. at DC 24V		
Leakage current / 漏電流	≤ 1.1 mA no-load		
Residual voltage / 殘餘電壓	≤ DC 2V		
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 66		
Wiring method / 出線方式	M12 plug-in connector type / M12 接頭		
Weight / 重量	Approx.70g		Approx.66g

◆ Dimensions / 尺寸圖：
(unit:mm)◆ Wiring diagrams
/ 接線圖：

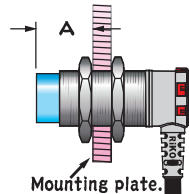
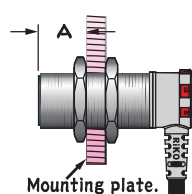
◆ Precautions proper installation / 安裝注意事項：

• PSD系列

Mounting with nut. / 螺母安裝

Shielded / 隔離型

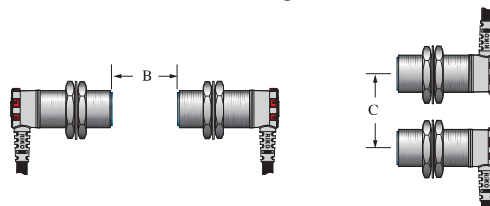
Unshielded / 非隔離型



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

When two sensors are mounted in parallel or face to face, keep the minimum distance (according to the table below) to avoid crosstalk.

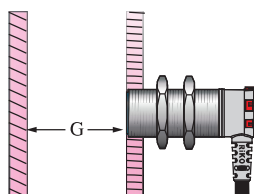
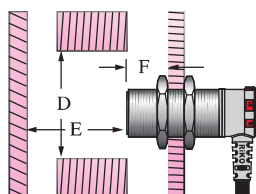


Sensing surface	Model	B (mm)	C (mm)
Shielded / 隔離型	PSD0801	≥ 5	≥ 15
	PSD1202	≥ 10	≥ 20
	PSD1805	≥ 12	≥ 30
	PSD3010	≥ 50	≥ 45
Unshielded / 非隔離型	PSD0803	≥ 8	≥ 15
	PSD1205	≥ 10	≥ 20
	PSD1808	≥ 16	≥ 30
	PSD1810	≥ 16	≥ 30
	PSD3015	≥ 60	≥ 45
	PSD3018	≥ 60	≥ 45

Influenced by surrounding metals. / 周圍金屬影響

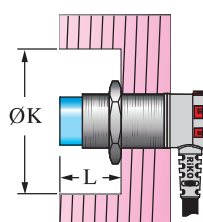
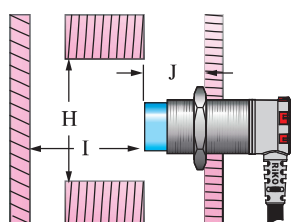
The surrounding metals will influence the sensing performance. Please keep the minimum sensing distance according to the table below.

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

Fiber Sensor

Photo / Area Photo / Ultrasonic Sensor

Inductive / Capacitive Proximity Sensor

Others

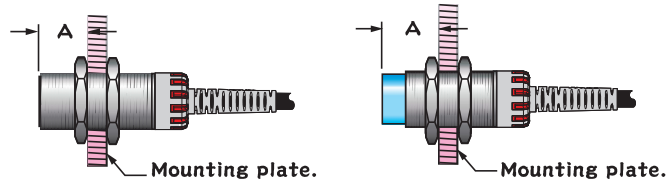
◆ Precautions proper installation / 安裝注意事項：

• PSC/系列

Mounting with nut. / 螺母安裝

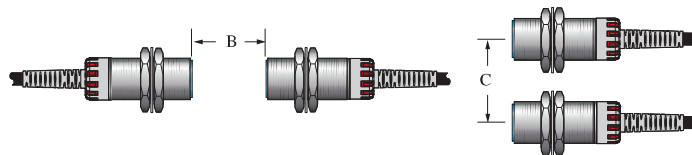
Shielded / 隔離型

Unshielded / 非隔離型



Crosstalk prevention. / 相互干擾

When two sensors are mounted in parallel or face to face, keep the minimum distance (according to the table below) to avoid crosstalk.



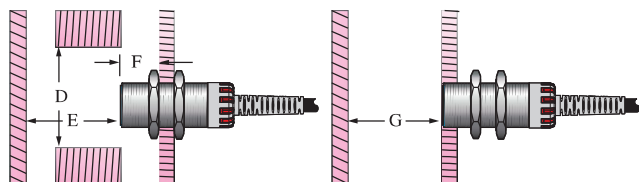
Sensing surface	Model	A (mm)
Shielded / 隔離型	PSC0801	≥ 0
	PSC1202	≥ 0
	PSC1203	≥ 0
	PSC1805	≥ 0
	PSC1806	≥ 0
	PSC3010	≥ 0
	PSC3012	≥ 0
Unshielded / 非隔離型	PSC0802	≥ 6
	PSC1205	≥ 15
	PSC1206	≥ 15
	PSC1808	≥ 22
	PSC1812	≥ 22
	PSC3018	≥ 30
	PSC3025	≥ 40

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

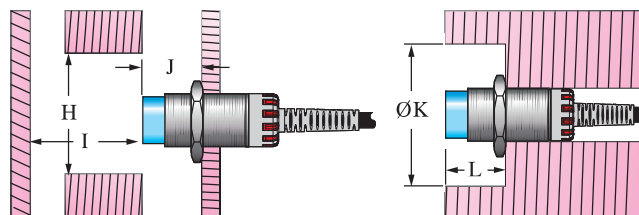
The surrounding metals will influence the sensing performance. Please keep the minimum sensing distance according to the table below.

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

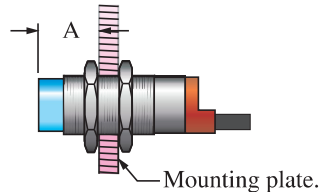
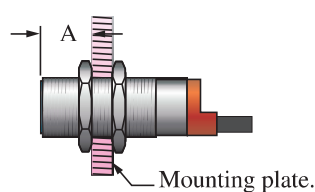
◆Precautions proper installation / 安裝注意事項：

• SC系列

Mounting with nut. / 螺母安裝

Shielded / 隔離型

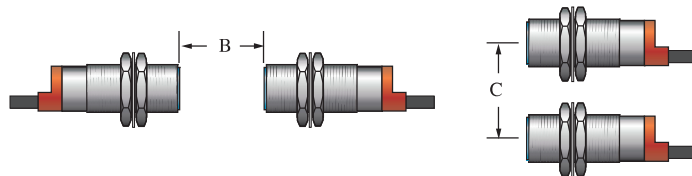
Unshielded / 非隔離型



Sensing surface	Model	A (mm)
Shielded /隔離型	SC0801	≥ 0
	SC1202	≥ 0
	SC1805	≥ 0
	SC3010	≥ 0
Unshielded /非隔離型	SC0802	≥ 6
	SC1204	≥ 15
	SC1808	≥ 22
	SC3015	≥ 30

Crosstalk prevention. / 相互干擾

When two sensors are mounted in parallel or face to face, keep the minimum distance (according to the table below) to avoid crosstalk.

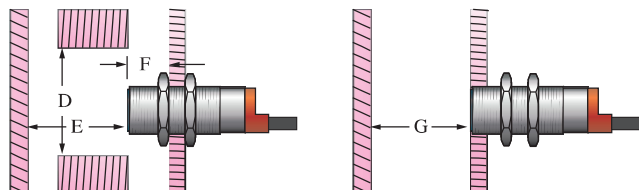


Sensing surface	Model	B (mm)	C (mm)
Shielded /隔離型	SC0801	≥ 20	≥ 15
	SC1202	≥ 30	≥ 20
	SC1805	≥ 50	≥ 35
	SC3010	≥ 100	≥ 70
Unshielded /非隔離型	SC0802	≥ 80	≥ 60
	SC1204	≥ 120	≥ 100
	SC1808	≥ 200	≥ 110
	SC3015	≥ 300	≥ 200

Influenced by surrounding metals. / 周圍金屬影響

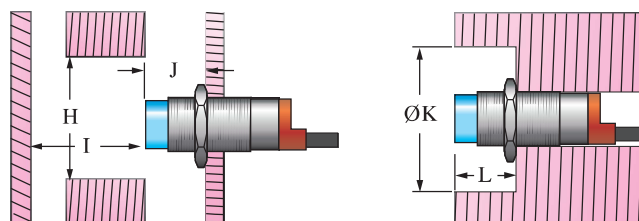
The surrounding metals will influence the sensing performance. Please keep the minimum sensing distance according to the table below.

Shielded / 隔離型



Model	D (mm)	E (mm)	F (mm)	G (mm)
SC0801	≥ 12	≥ 4	≥ 0	≥ 4
SC1202	≥ 18	≥ 8	≥ 0	≥ 8
SC1805	≥ 27	≥ 20	≥ 0	≥ 20
SC3010	≥ 45	≥ 40	≥ 0	≥ 40

Unshielded / 非隔離型



Model	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)
SC0802	≥ 22	≥ 8	≥ 6	≥ 22	≥ 6
SC1204	≥ 36	≥ 20	≥ 15	≥ 40	≥ 15
SC1808	≥ 54	≥ 40	≥ 22	≥ 55	≥ 22
SC3015	≥ 90	≥ 70	≥ 30	≥ 90	≥ 30