

◆ Order Information / 訂貨索引:

SN D 04 - N D

LED
Rectangular Inductive
Proximity Sensor
LED方形電感性近接開關

JN

Twin LED
Rectangular Inductive
Proximity Sensor
雙LED方形電感性近接開關

RN

Twin LED
Rectangular Inductive
High Speed
Proximity Sensor
雙LED方形電感性高速
近接開關

RNH

Rectangular Inductive
Proximity Sensor
方形電感性近接開關

SN

Top sensing surface
前方感應

Front sensing surface
上方感應

D

Sensing distance
/檢測距離 2mm

02

Sensing distance
/檢測距離 4mm

04

Sensing distance
/檢測距離 5mm

05

Sensing distance
/檢測距離 10mm

10

Sensing distance
/檢測距離 20mm

20

D

M8 connector
with 15cm cable
M8 接頭
15cm 電線式

D1

M8 connector
M8 接頭式

K

M12 connector
with 15cm cable
M12 接頭
15cm 電線式

N

Output NPN.NO

P

Output PNP.NO

N2

Output NPN.NC

P2

Output PNP.NC

KP2

NPN.NO/.NC&
PNP NO/NC
all in one

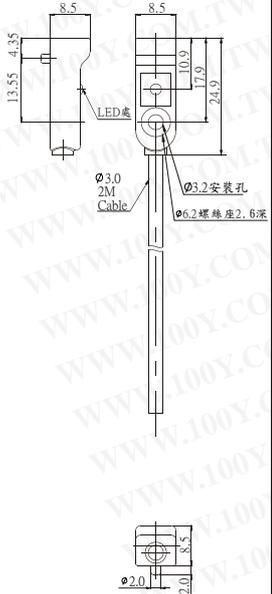
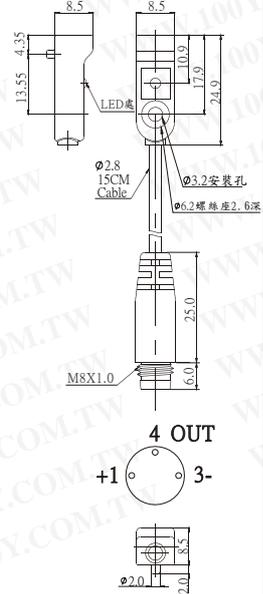
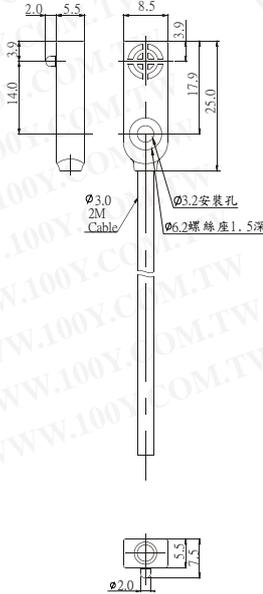
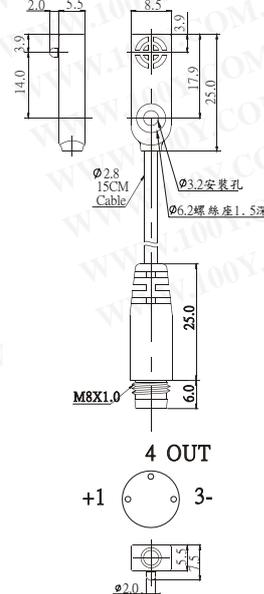
A

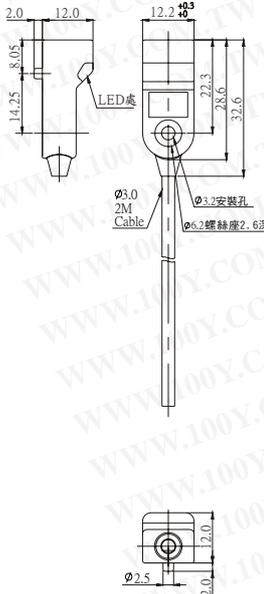
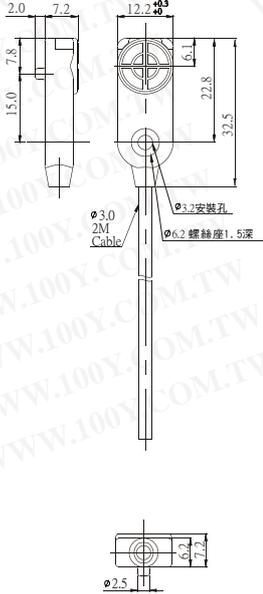
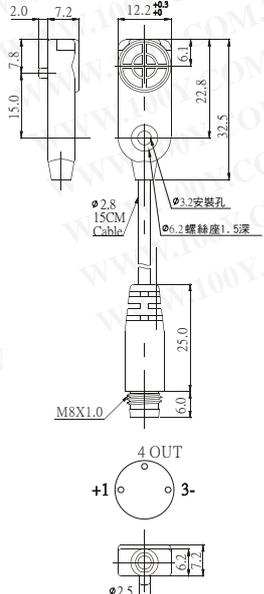
Output SCR.NO

A2

Output SCR.NC

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

◆ Shape/外觀:					
◆ Specifications /規格表:					
Output method /輸出模式	NPN.NO	JN02-N	JN02-ND	JND02-N	JND02-ND
	NPN.NC	—	—	—	—
	PNP.NO	JN02-P	JN02-PD	JND02-P	JND02-PD
	PNP.NC	—	—	—	—
	NPN.NO/NC PNP.NO/NC	—	—	—	—
	SCR.NO	—	—	—	—
	SCR.NC	—	—	—	—
Sensing Surface / 檢測方向		Top surface / 前方		Front surface / 上方	
Standard sensing object / 標準檢測物		Iron 8 × 8 × 1mm		Iron 8 × 8 × 1mm	
Sensing distance / 檢出距離		2 mm		2 mm	
Secure sensing distance / 建議距離		0 to 1.6 mm		0 to 1.6 mm	
Hysteresis / 遲滯		≅ 10 % of sensing distance		≅ 10 % of sensing distance	
Response frequency / 反應頻率		1K Hz		1K Hz	
Operating voltage / 工作電壓		DC: 10 ~ 30 VDC		DC: 10 ~ 30 VDC	
Current consumption / 消耗電流		≅ 8 mA no-load		≅ 8 mA no-load	
Output current / 輸出電流		30V 100 mA max		30V 100 mA max	
Leakage current / 漏電流		≅ 1.1 mA no-load		≅ 1.1 mA no-load	
Residual voltage / 殘餘電壓		≅ 1.5 VDC		≅ 1.5 VDC	
Insulation resistance / 隔離阻抗		20M Ω min. 500VDC		20M Ω min. 500VDC	
Voltage withstandability / 絕緣耐壓		1000VAC for 1min.		1000VAC for 1min.	
Operating temperature / 工作溫度範圍		- 20 °C ~ + 60 °C		- 20 °C ~ + 60 °C	
Protection degree / 防水等級		IP 64	IP 64	IP 64	IP 64
Wiring method / 出線方式		Pre-wire Ø3 x 2M/3-wire	M8 pigtailed type /M8 接頭15cm 電線式	Pre-wire Ø3 x 2M/3-wire	M8 pigtailed type /M8 接頭15cm 電線式
◆ Dimensions /尺寸圖:					

◆ Shape/外觀:					
◆ Specifications /規格表:					
Output method /輸出模式	NPN.NO	JN04-N	JN04-ND	JND04-N	JND04-ND
	NPN.NC	JN04-N2	JN04-N2D	JND04-N2	JND04-N2D
	PNP.NO	JN04-P	JN04-PD	JND04-P	JND04-PD
	PNP.NC	JN04-P2	JN04-P2D	JND04-P2	JND04-P2D
	NPN.NO/NC PNP.NO/NC	—	—	—	—
	SCR.NO	—	—	—	—
	SCR.NC	—	—	—	—
Sensing Surface / 檢測方向	Top surface / 前方		Front surface / 上方		
Standard sensing object / 標準檢測物	Iron 12 × 12 × 1mm		Iron 12 × 12 × 1mm		
Sensing distance / 檢出距離	4 mm		4 mm		
Secure sensing distance / 建議距離	0 to 3.2 mm		0 to 3.2 mm		
Hysteresis / 遲滯	≅ 10 % of sensing distance		≅ 10 % of sensing distance		
Response frequency / 反應頻率	1K Hz		1K Hz		
Operating voltage / 工作電壓	DC: 10 ~ 30 VDC		DC: 10 ~ 30 VDC		
Current consumption / 消耗電流	≅ 8 mA no-load		≅ 8 mA no-load		
Output current / 輸出電流	30V 100 mA max		30V 100 mA max		
Leakage current / 漏電流	≅ 1.1 mA no-load		≅ 1.1 mA no-load		
Residual voltage / 殘餘電壓	≅ 1.5 VDC		≅ 1.5 VDC		
Insulation resistance / 隔離阻抗	20M Ω min. 500VDC		20M Ω min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		1000VAC for 1min.		
Operating temperature / 工作溫度範圍	- 20 °C ~ + 60 °C		- 20 °C ~ + 60 °C		
Protection degree / 防水等級	IP 64	IP 64	IP 64	IP 64	IP 64
Wiring method / 出線方式	Pre-wire Ø3 x 2M/3-wire	M8 pigtailed type /M8 接頭15cm 電線式	Pre-wire Ø3 x 2M/3-wire	M8 pigtailed type /M8 接頭15cm 電線式	M8 pigtailed type /M8 接頭15cm 電線式
◆ Dimensions /尺寸圖:					

◆ Characteristics/特點:

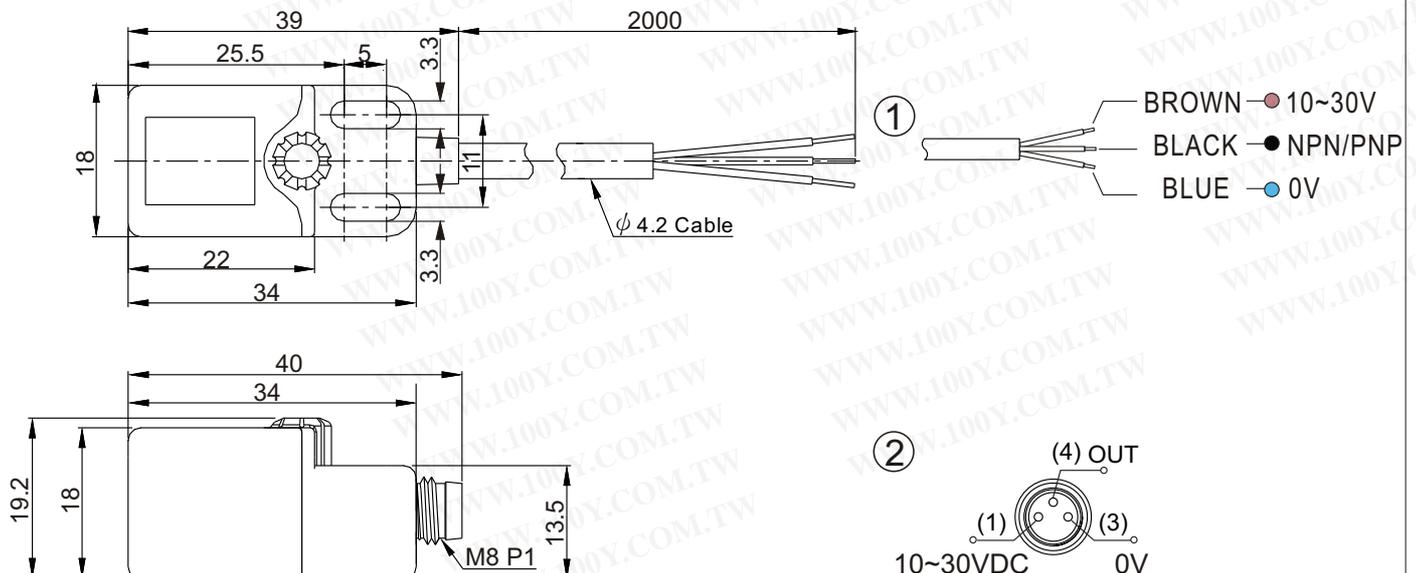
- Build-in twin LED, convenient for checking the operaton.
/具有雙LED，檢測操作更方便
- Plug-in connector type is available, easy to connect, anyone can replace the new sensor in a minute.
/具有長形孔，可微調安裝位置;插入式接線，安裝更換很容易



◆ Specifications/規格表:

Output method 輸出模式	NPN. NO	RN04-N	RN04-ND1
	NPN. NC	RN04-N2	RN04-N2D1
	PNP. NO	RN04-P	RN04-PD1
	PNP. NC	RN04-P2	RN04-P2D1
Sensing Surface / 檢測方向	Top surface / 前方		
Standard sensing object / 標準檢測物	Iron 18x18x1mm		
Sensing distance / 檢出距離	5mm		
Secure sensing distance / 建議距離	0to4mm		
Hysteresis / 遲滯	≤10% of sensing distance		
Response frequency / 反應頻率	500 Hz		
Operating voltage / 工作電壓	DC : 10~30VDC		
Current consumption / 消耗電流	≤8 mA no-load		
Output current / 輸出電流	DC : 30V 100 mA max.		
Leakage current / 漏電流	≤1.1 mA no-load		
Residual voltage / 殘餘電壓	≤1.5VDC		
Insulation resistance / 隔離阻抗	20M V min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		
Operating temperature / 工作溫度範圍	-20°C ~ +60°C		
Protection degree / 防水等級	IP66		
Wiring method / 出線方式	φ 4.2x2M/3cores		M8 connector/ M8 接頭

◆ Dimensions/外型尺寸圖:



◆ Characteristics/特點:

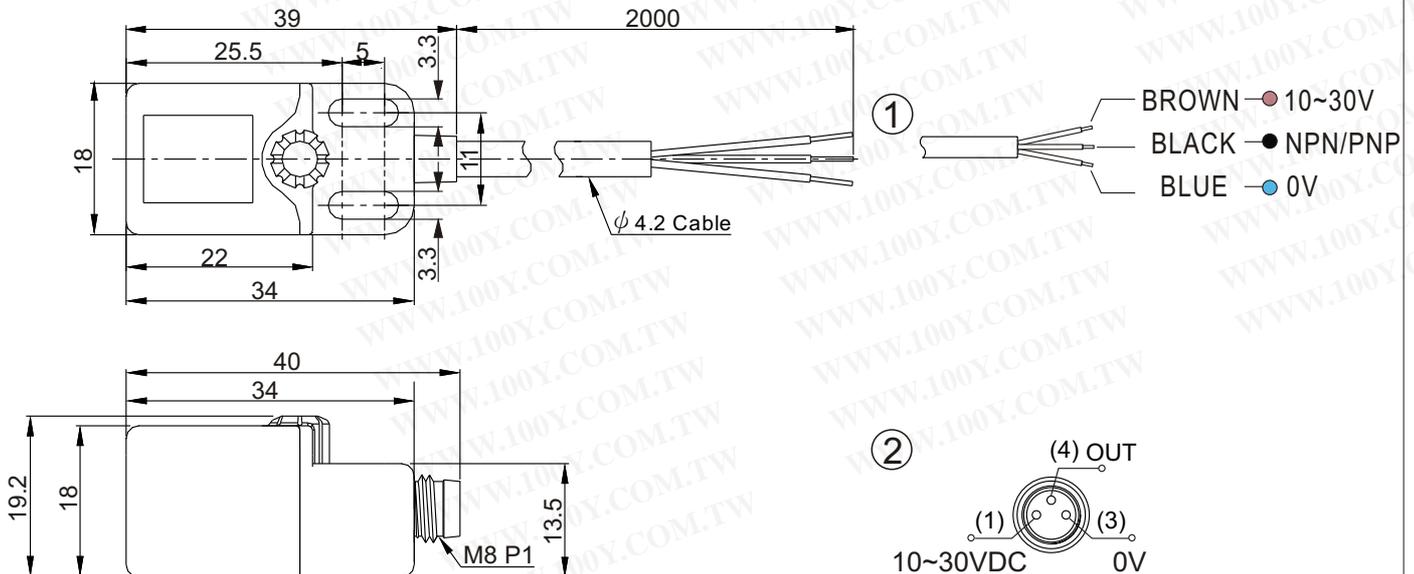
- Build-in twin LED, convenient for checking the operation.
/具有雙LED，檢測操作更方便
- Plug-in connector type is available, easy to connect, anyone can replace the new sensor in a minute.
/具有長形孔，可微調安裝位置;插入式接線，安裝更換很容易



◆ Specifications/規格表:

Output method 輸出模式	NPN. NO	RNH04-N	RNH04-ND1
	NPN. NC	RNH04-N2	RNH04-N2D1
	PNP. NO	RNH04-P	RNH04-PD1
	PNP. NC	RNH04-P2	RNH04-P2D1
Sensing Surface / 檢測方向	Top surface / 前方		
Standard sensing object / 標準檢測物	Iron 18x18x1mm		
Sensing distance / 檢出距離	5mm		
Secure sensing distance / 建議距離	0to4mm		
Hysteresis / 遲滯	≤10% of sensing distance		
Response frequency / 反應頻率	700 Hz		
Operating voltage / 工作電壓	DC : 10~30VDC		
Current consumption / 消耗電流	≤8 mA no-load		
Output current / 輸出電流	DC : 30V 100 mA Max.		
Leakage current / 漏電流	≤1.1 mA no-load		
Residual voltage / 殘餘電壓	≤1.5VDC		
Insulation resistance / 隔離阻抗	20M V Min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		
Operating temperature / 工作溫度範圍	-20°C ~ +60°C		
Protection degree / 防水等級	IP66		
Wiring method / 出線方式	φ 4. 2x2M/3cores	M8 connector/ M8 接頭	

◆ Dimensions/外型尺寸圖:



◆ Characteristics/特點:

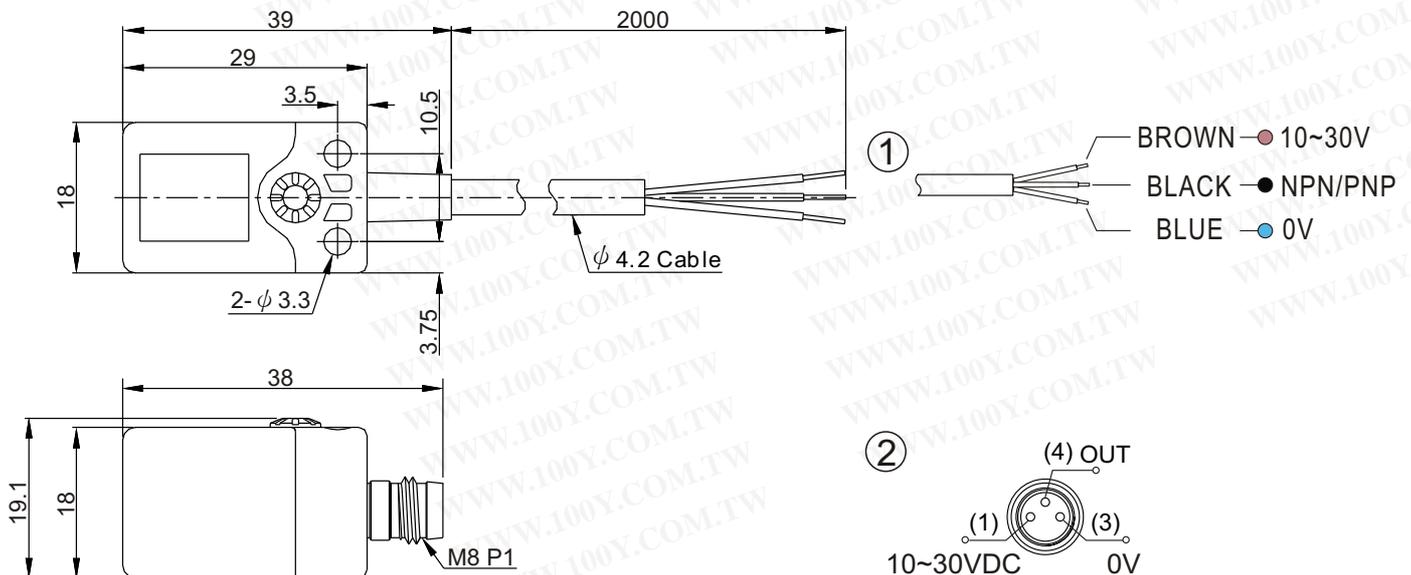
- Build-in twin LED, convenient for checking the operation.
/具有雙LED，檢測操作更方便
- Plug-in connector type is available, easy to connect, anyone can replace the new sensor in a minute.
/插入式接線，安裝更換很容易



◆ Specifications/規格表:

Output method 輸出模式	NPN. NO	RN05-N	RN05-ND1
	NPN. NC	RN05-N2	RN05-N2D1
	PNP. NO	RN05-P	RN05-PD1
	PNP. NC	RN05-P2	RN05-P2D1
Sensing Surface / 檢測方向	Top surface / 前方		
Standard sensing object / 標準檢測物	Iron 18x18x1mm		
Sensing distance / 檢出距離	5mm		
Secure sensing distance / 建議距離	0to4mm		
Hysteresis / 遲滯	≤10% of sensing distance		
Response frequency / 反應頻率	500 Hz		
Operating voltage / 工作電壓	DC : 10~30VDC		
Current consumption / 消耗電流	≤8 mA no-load		
Output current / 輸出電流	30V 100 mA Max.		
Leakage current / 漏電流	≤1.1 mA no-load		
Residual voltage / 殘餘電壓	≤1.5VDC		
Insulation resistance / 隔離阻抗	20M Ω Min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		
Operating temperature / 工作溫度範圍	-20°C ~+ 60°C		
Protection degree / 防水等級	IP66		
Wiring method / 出線方式	φ 4.2x2M/3cores		M8 connector / M8 接頭

◆ Dimensions/外型尺寸圖:

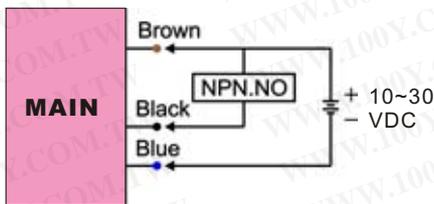


SN Rectangular Inductive Proximity Sensor

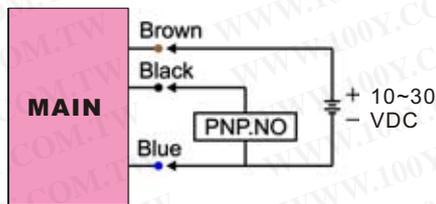
◆ Wiring diagrams / 接線圖:

● DC versions / 直流接線

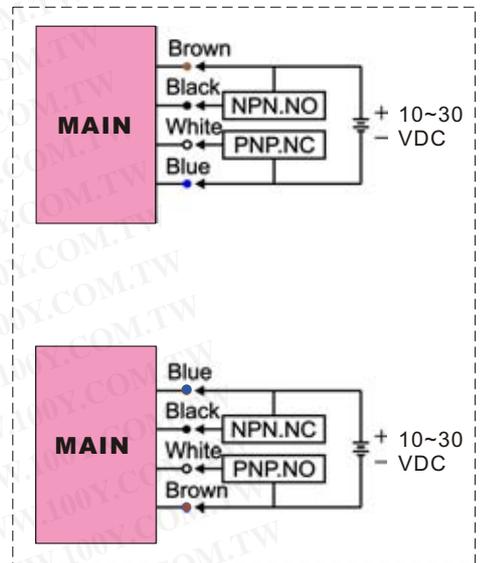
SN □ - N □



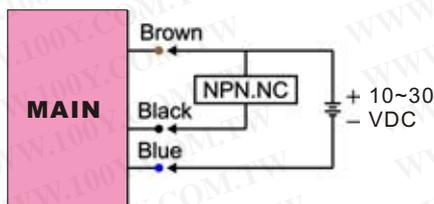
SN □ - P □



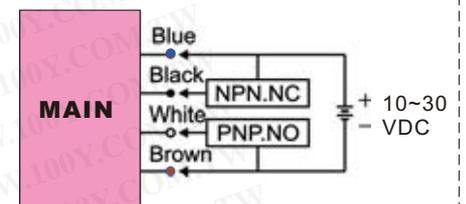
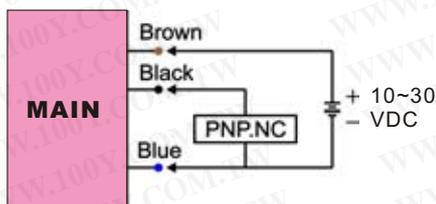
SN □ - KP2 □



SN □ - N2 □

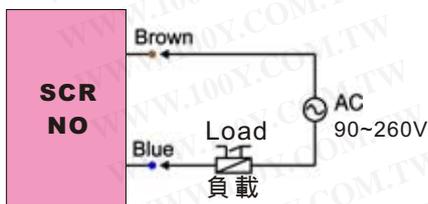


SN □ - P2 □

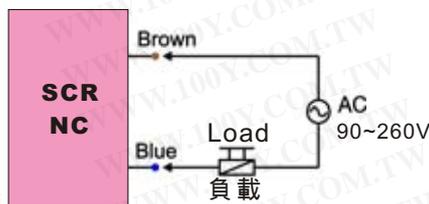


● AC versions / 交流接線

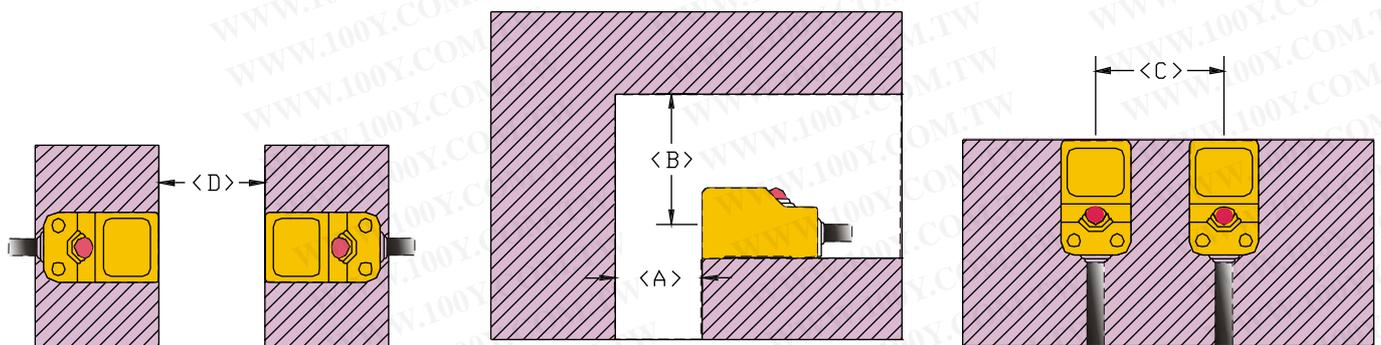
SN □ - A □



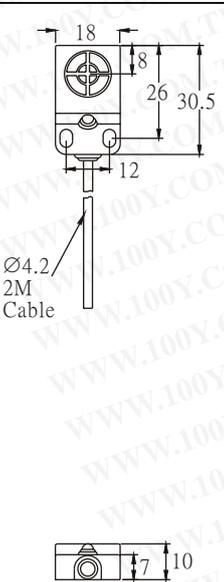
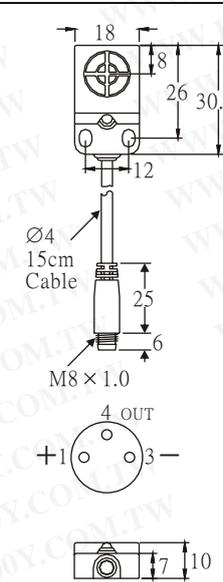
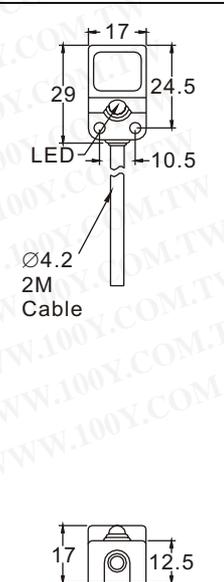
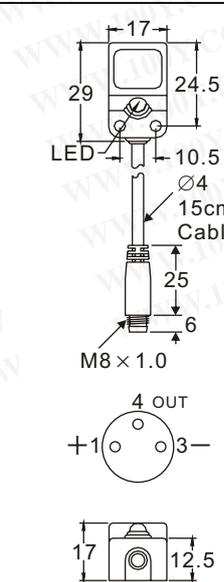
SN □ - A2 □

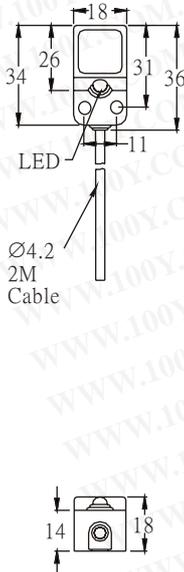
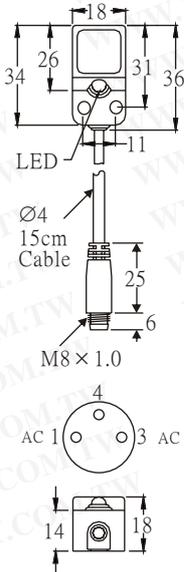
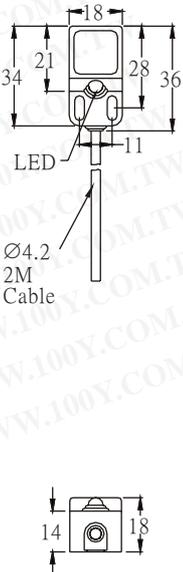
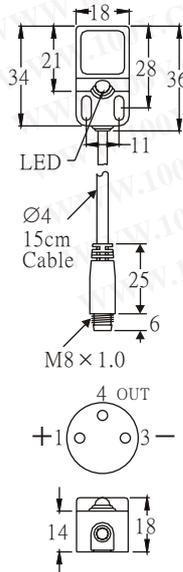


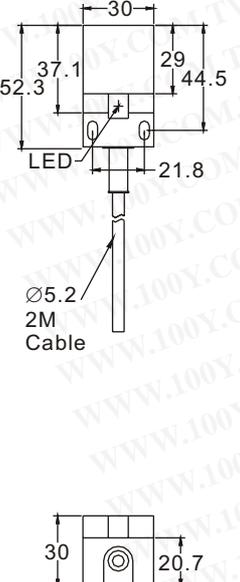
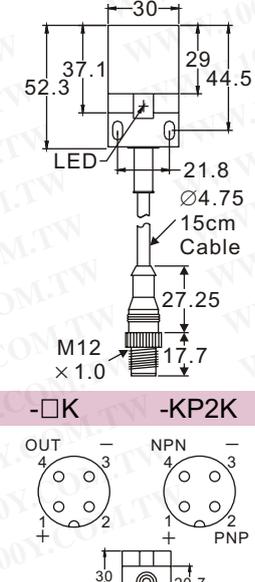
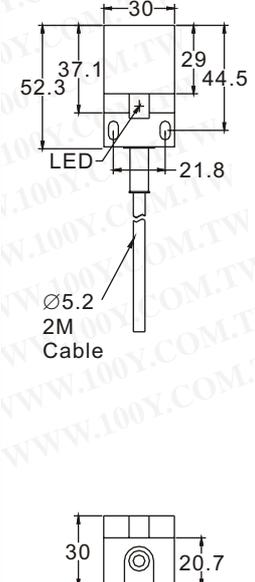
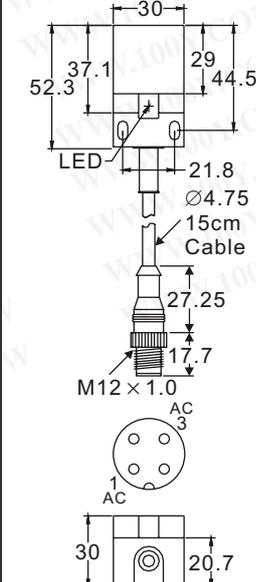
◆ Precautions for proper installation / 安裝注意事項:



SND04	A ≥ 15mm	B ≥ 20mm	C ≥ 30mm	D ≥ 30mm
SN04	A ≥ 15mm	B ≥ 20mm	C ≥ 30mm	D ≥ 30mm
SN05	A ≥ 20mm	B ≥ 25mm	C ≥ 40mm	D ≥ 40mm
SN10	A ≥ 40mm	B ≥ 30mm	C ≥ 60mm	D ≥ 60mm
SN20	A ≥ 80mm	B ≥ 45mm	C ≥ 80mm	D ≥ 80mm

◆ Shape/外觀:					
◆ Specifications /規格表:					
Output method /輸出模式	NPN.NO	SND04-N	SND04-ND	SN05-N	SN05-ND
	NPN.NC	SND04-N2	SND04-N2D	SN05-N2	SN05-N2D
	PNP.NO	SND04-P	SND04-PD	SN05-P	SN05-PD
	PNP.NC	SND04-P2	SND04-P2D	SN05-P2	SN05-P2D
	NPN.NO/NC PNP.NO/NC	—	—	—	—
	SCR.NO	—	—	—	—
	SCR.NC	—	—	—	—
Sensing Surface / 檢測方向	Front surface / 上方		Top surface / 前方		
Standard sensing object / 標準檢測物	Iron 18 × 18 × 1mm		Iron 18 × 18 × 1mm		
Sensing distance / 檢出距離	4 mm		4 mm		
Secure sensing distance / 建議距離	0 to 3.2 mm		0 ~ 3.2 mm		
Hysteresis / 遲滯	≤ 10 % of sensing distance		≤ 10 % of sensing distance		
Response frequency / 反應頻率	500 Hz		500 Hz		
Operating voltage / 工作電壓	DC: 10 ~ 30 VDC		DC: 10 ~ 30 VDC		
Current consumption / 消耗電流	≤ 8 mA no-load		≤ 8 mA no-load		
Output current / 輸出電流	30V 100 mA max		30V 100 mA max		
Leakage current / 漏電流	≤ 1.1 mA no-load		≤ 1.1 mA no-load		
Residual voltage / 殘餘電壓	≤ 1.5 VDC		≤ 1.5 VDC		
Insulation resistance / 隔離阻抗	20M Ω min. 500VDC		20M Ω min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		1000VAC for 1min.		
Operating temperature / 工作溫度範圍	- 20 °C ~ + 60 °C		- 20 °C ~ + 60 °C		
Protection degree / 防水等級	IP 66	IP 66	IP 66	IP 66	
Wiring method / 出線方式	Pre-wired Ø4.2 × 2M / 3cores	M8 pigtailed type / M8 接頭15cm 電線式	Pre-wired Ø4.2 × 2M / 3cores	M8 pigtailed type / M8 接頭15cm 電線式	
◆ Dimensions / 尺寸圖:					

◆ Shape/外觀:					
◆ Specifications /規格表:					
Output method /輸出模式	NPN.NO	—	—	SN04-N	SN04-ND
	NPN.NC	—	—	SN04-N2	SN04-N2D
	PNP.NO	—	—	SN04-P	SN04-PD
	PNP.NC	—	—	SN04-P2	SN04-P2D
	NPN.NO/NC PNP.NO/NC	—	—	—	—
	SCR.NO	SN04-A	SN04-AD	—	—
	SCR.NC	SN04-A2	SN04-A2D	—	—
Sensing Surface / 檢測方向	Top surface / 前方		Top surface / 前方		
Standard sensing object / 標準檢測物	Iron 18 × 18 × 1mm		Iron 18 × 18 × 1mm		
Sensing distance / 檢出距離	4 mm		4 mm		
Secure sensing distance / 建議距離	0 to 3.2 mm		0 to 3.2 mm		
Hysteresis / 遲滯	≅ 10 % of sensing distance		≅ 10 % of sensing distance		
Response frequency / 反應頻率	20 Hz		500 Hz		
Operating voltage / 工作電壓	AC: 90 ~ 260 V		DC: 10 ~ 30 VDC		
Current consumption / 消耗電流	2 mA max		≅ 8 mA no-load		
Output current / 輸出電流	5~ 200 mA max		DC:30V 100 mA max		
Leakage current / 漏電流	≅ 2.0 mA no-load		≅ 1.1 mA no-load		
Residual voltage / 殘餘電壓	≅ 4VAC		≅ 1.5 VDC		
Insulation resistance / 隔離阻抗	20M Ω min. 500VDC		20M Ω min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		1000VAC for 1min.		
Operating temperature / 工作溫度範圍	- 20 °C ~ + 60 °C		- 20 °C ~ + 60 °C		
Protection degree / 防水等級	IP 66	IP 66	IP 66	IP 66	
Wiring method / 出線方式	Pre-wired Ø4.2 × 2M / 2-wire	M8 pigtailed type / M8 接頭15cm 電線式	Pre-wired Ø4.2 × 2M / 2-wire	M8 pigtailed type / M8 接頭15cm 電線式	
◆ Dimensions /尺寸圖:					

◆ Shape/外觀:					
◆ Specifications /規格表:					
Output method /輸出模式	NPN.NO	SN10-N	SN10-NK	—	—
	NPN.NC	SN10-N2	SN10-N2K	—	—
	PNP.NO	SN10-P	SN10-PK	—	—
	PNP.NC	SN10-P2	SN10-P2K	—	—
	NPN.NO/NC PNP.NO/NC	SN10-KP2	SN10-KP2K	—	—
	SCR.NO	—	—	SN10-A	SN10-AK
	SCR.NC	—	—	SN10-A2	SN10-A2K
Sensing Surface / 檢測方向	Top surface / 前方		Top surface / 前方		
Standard sensing object / 標準檢測物	Iron 30 × 30 × 1mm		Iron 30 × 30 × 1mm		
Sensing distance / 檢出距離	10 mm		10 mm		
Secure sensing distance / 建議距離	0 to 8 mm		0 to 8 mm		
Hysteresis / 遲滯	≅ 10 % of sensing distance		≅ 10 % of sensing distance		
Response frequency / 反應頻率	300 Hz		20 Hz		
Operating voltage / 工作電壓	DC: 10 ~ 30 VDC		AC: 90 ~ 260 VAC		
Current consumption / 消耗電流	≅ 8 mA no-load		2 mA max		
Output current / 輸出電流	DC: 30V 100 mA max		5 ~ 300 mA max		
Leakage current / 漏電流	≅ 1.1 mA no-load		≅ 2.0 mA no-load		
Residual voltage / 殘餘電壓	≅ 1.5 VDC		≅ 4 VAC		
Insulation resistance / 隔離阻抗	20M Ω min. 500VDC		20M Ω min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		1000VAC for 1min.		
Operating temperature / 工作溫度範圍	-20 °C ~ +60 °C		-20 °C ~ +60 °C		
Protection degree / 防水等級	IP 66	IP 66	IP 66	IP 66	
Wiring method / 出線方式	Pre-wired Ø5.2 x 2M/3-wire (KP2:Ø5.2 x 2M/4 cores)	M12 pigtailed type / M12 接頭15cm 電線式	Pre-wired Ø5.2 x 2M/2-wire	M12 pigtailed type / M12 接頭15cm 電線式	
◆ Dimensions / 尺寸圖:					

◆ Shape/外觀:



◆ Specifications /規格表:

Output method 輸出模式	NPN.NC	SN20-N2	SN20-N2K	—	—
	PNP.NO	SN20-P	SN20-PK	—	—
	PNP.NC	SN20-P2	SN20-P2K	—	—
	NPN.NO/NC PNP.NO/NC	SN20-KP2	SN20-KP2K	—	—
	SCR.NO	—	—	SN20-A	SN20-AK
	SCR.NC	—	—	SN20-A2	SN20-A2K
Sensing Surface / 檢測方向	Top surface / 前方		Top surface / 前方		
Standard sensing object / 標準檢測物	Iron 40 × 40 × 1mm		Iron 40 × 40 × 1mm		
Sensing distance / 檢出距離	20 mm		20 mm		
Secure sensing distance / 建議距離	0 to 16 mm		0 to 16 mm		
Hysteresis / 遲滯	≤ 10 % of sensing distance		≤ 10 % of sensing distance		
Response frequency / 反應頻率	50 Hz		20 Hz		
Operating voltage / 工作電壓	DC: 10 ~ 30 VDC		AC: 90 ~ 260 VAC		
Current consumption / 消耗電流	≤ 8 mA no-load		2 mA max		
Output current / 輸出電流	DC:30V 100 mA max		5 ~ 300 mA max		
Leakage current / 漏電流	≤ 1.1 mA no-load		≤ 2.0 mA no-load		
Residual voltage / 殘餘電壓	≤ 1.5 VDC		≤ 4 VAC		
Insulation resistance / 隔離阻抗	20M Ω min. 500VDC		20M Ω min. 500VDC		
Voltage withstandability / 絕緣耐壓	1000VAC for 1min.		1000VAC for 1min.		
Operating temperature / 工作溫度範圍	- 20 °C ~ + 60 °C		- 20 °C ~ + 60 °C		
Protection degree / 防水等級	IP 66	IP 66	IP 66	IP 66	
Wiring method / 出線方式	Pre-wired Ø5.2 x 2M/3-wire (Kp2:Ø5.2 × 2M / 4 cores)	M12 pigtailed type / M12 接頭 15cm 電線式	Pre-wired Ø5.2 x 2M/2-wire	M12 pigtailed type / M12 接頭 15cm 電線式	

◆ Dimensions /尺寸圖:

