

Long Sensing Range Tubular Inductive Proximity Sensor



◆ **Around Two times longer sensing distance than conventional models.**

檢測距離接近原有機型的兩倍

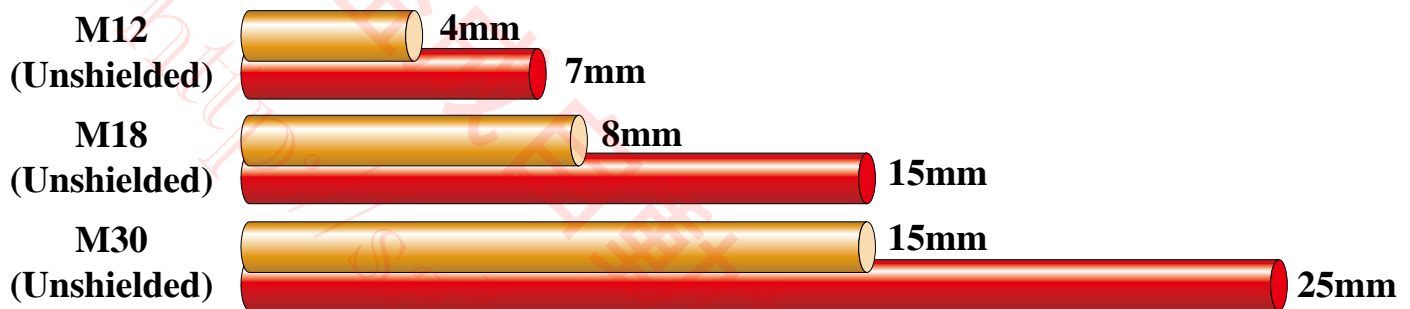
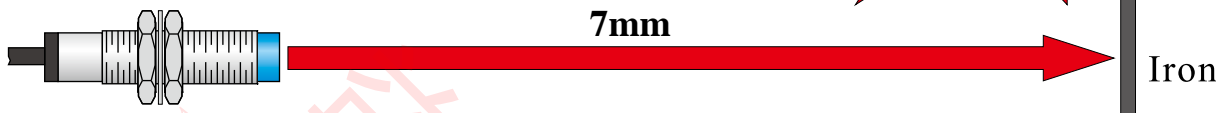
TSC series features 175% longer sensing distance than conventional models. It makes the detection more stable.

TSC系列比原有的機型檢測距提升了175%，使檢測更加可靠。

SC1204-□(Conventional model)



TSC1207-□(M12 Unshielded)



Longer sensing range	Short circuit protection	Noise immunity	Waterproof
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◆ **Short Circuit Protection / Reverse Polarity Protection**

短路保護/極性保護裝置

The TSC series will activate the short circuit protection/reverse polarity protection to reduce the damage caused by the wrong operation. / 當使用者誤接輸出線或極性相反時，將會啟動短路保護/極性保護，以降低因誤接而所造成的損害。

◆ **Waterproof / 防水**

IP66 protection. The sensor can be installed outdoors. It can prevent damage caused by immersion or dip in water under regular standard. / 防水等級為IP66，可裝置在室外，在一定標準下能確保不因浸水而造成損壞。

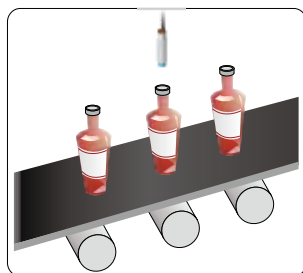
◆ **Operation indicator / 可見工作狀態指示燈**

The entire tail cover is transparent. The light of red LED can be widely observable and the operation situation can be observed very quickly.

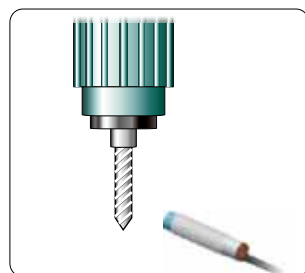
產品的尾部為透明的後殼，可以很清楚的看到LED燈發亮(紅色)，能快速判斷是否為工作狀態。



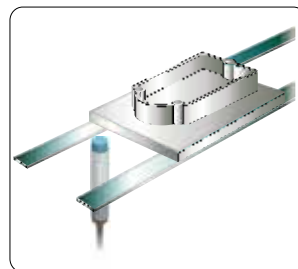
◆ **Applications / 應用例**



To detect the aluminum lid on the bottle.



To detect if the drill is broken.



To detect the traveling aluminum pallets.

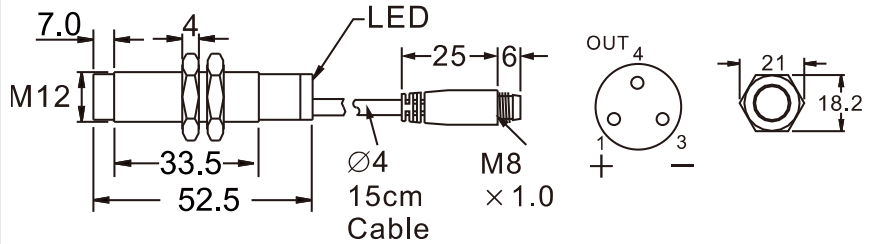
Fiber
Photo Sensor
Area Sensor
Ultrasonic Sensors
Inductive Proximity Sensor
Capacitive Proximity Sensor
Timer / Counter
Others
Accessories

M12

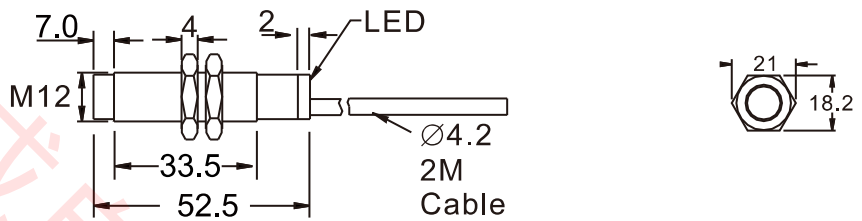
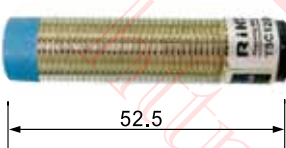
Long Sensing Range Tubular Inductive Proximity Sensor

Specifications/規格表:

TSC1207-□D



TSC1207-□


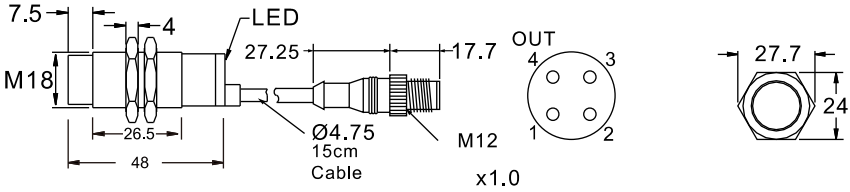
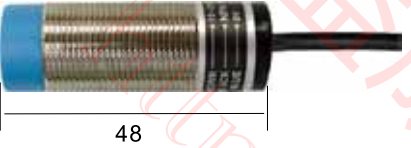
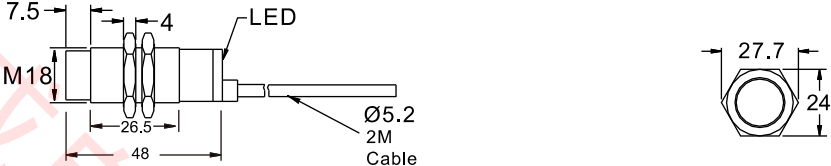


Output method / 輸出模式	NPN N.O.	TSC1207-N	TSC1207-ND
	PNP N.O.	TSC1207-P	TSC1207-PD
Sensing type / 檢出方式	Unshielded / 非隔離型		
Description / 外型	Standard / 標準M12		
Standard sensing object / 標準檢測物	Iron 12 x 12 x 1 mm		
Sensing distance / 檢出距離	7 mm		
Secure sensing distance / 建議距離	0 to 5.6 mm		
Hysteresis / 遲滯	≤ 15 % of sensing distance		
Response time / 反應時間	1 ms Max.		
Operating voltage / 工作電壓	DC 12 ~ 24V		
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	20M Ω min. (DC500V)		
Voltage withstandability / 絕緣耐壓	AC1000V 60Hz for 60 Sec.		
Operating temperature / 工作溫度	-5°C ~ + 50°C		
Protection degree / 防水等級	IP 66		
Wiring method / 出線方式	Ø4.2 x 2M / 3-wire	M8 pigtailed type/ M8接頭15cm電線式	
Weight / 重量	Approx. 65g	Approx. 15g	

Long Sensing Range Tubular Inductive Proximity Sensor

M18

Specifications/規格表：

TSC1815-□K 			
TSC1815-□ 			
Output method / 輸出模式	NPN N.O.	TSC1815-N	TSC1815-NK
	PNP N.O.	TSC1815-P	TSC1815-PK
Sensing type / 檢出方式	Unshielded / 非隔離型		
Description / 外型	Standard / 標準M18		
Standard sensing object / 標準檢測物	Iron 18 x 18 x 1 mm		
Sensing distance / 檢出距離	15 mm		
Secure sensing distance / 建議距離	0 to 12 mm		
Hysteresis / 遲滯	≤ 15 % of sensing distance		
Response time / 反應時間	3ms Max.		
Operating voltage / 工作電壓	DC 12 ~ 24V		
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	-5°C ~ + 50°C		
Protection degree / 防水等級	IP 66		
Wiring method / 出線方式	Ø5.2 x 2M / 3-wire	M12 pigtailed type/ M12接頭15cm電線式	
Weight / 重量	Approx. 90g	Approx. 30g	

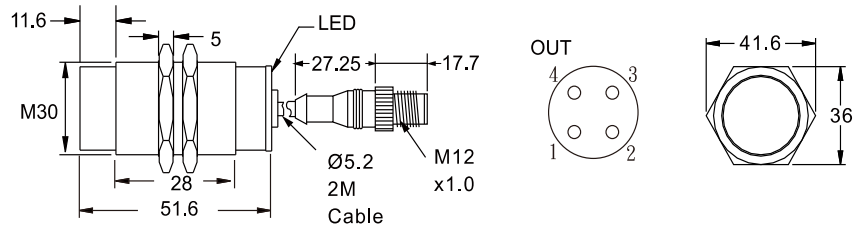
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Capacitive Proximity Sensor
Timer / Counter
Others
Accessories

M30

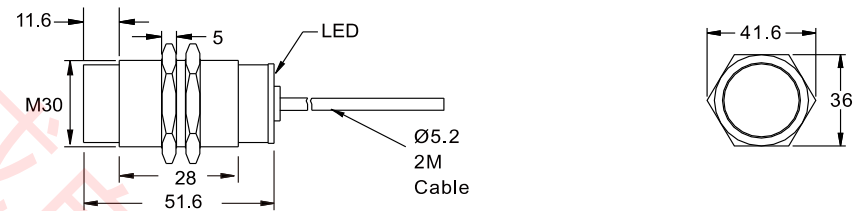
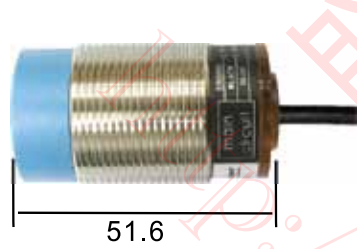
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Specifications/規格表:

TSC3025-□K



TSC3025-□



Output method / 輸出模式	NPN N.O.	TSC3025-N	TSC3025-NK
	PNP N.O.	TSC3025-P	TSC3025-PK
Sensing type / 檢出方式	Unshielded / 非隔離型		
Description / 外型	Standard / 標準M30		
Standard sensing object / 標準檢測物	Iron 30 x 30 x 1 mm		
Sensing distance / 檢出距離	25 mm		
Secure sensing distance / 建議距離	0 to 20 mm		
Hysteresis / 遲滯	≤ 15 % of sensing distance		
Response time / 反應時間	5ms Max.		
Operating voltage / 工作電壓	DC 12 ~ 24V		
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	-5°C ~ +50°C		
Protection degree / 防水等級	IP 66		
Wiring method / 出線方式	Ø5.2 x 2M / 3-wire	M12 pigtailed type / M12接頭15cm電線式	
Weight / 重量	Approx. 135g	Approx. 80g	