

Photo Sensor

Area Sensor

Inductive Proximity Sensor

Capacitive Proximity Sensor

Timer / Counter

Others

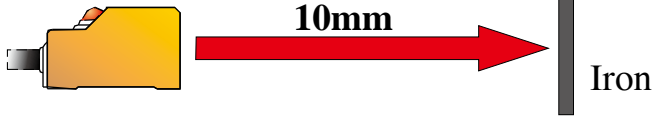
Accessories

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

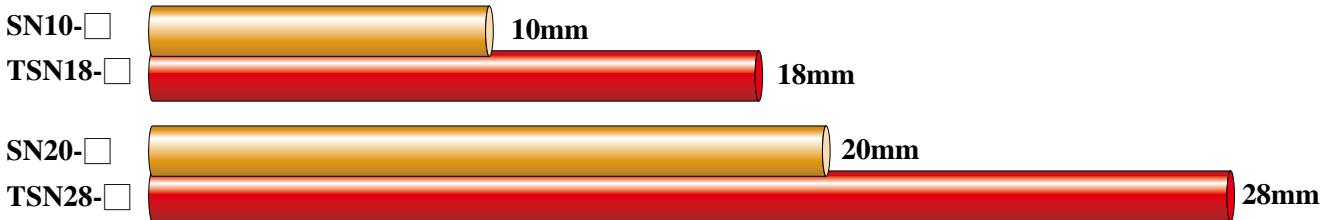
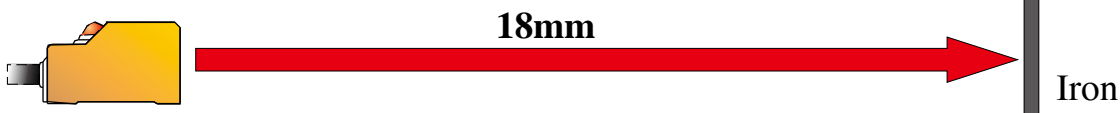
檢測距離接近原有機型的兩倍

TSC series features 180% 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180%，使檢測更加可靠。

SN10-□ (Conventional model)



TSN18-□ (□30 Unshielded)



Longer sensing range

Short circuit protection

Noise immunity

Waterproof

◆ **Short Circuit Protection / Reverse Polarity Protection**

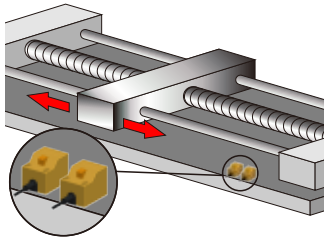
短路保護/極性保護裝置

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。

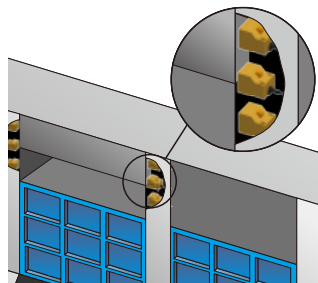
◆ **Waterproof / 防水**

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。

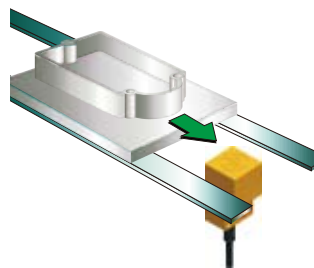
◆ **Applications / 應用例**



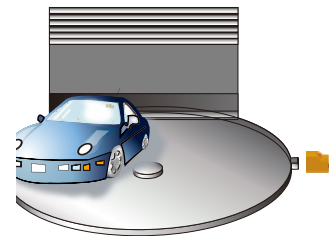
Detecting worktable positions.
/ 檢測工作台的位置



Sensing the height of a sluice gate.
/ 感應水閘門的高度



Positioning metal pad.
/ 定位金屬錘墊。



Sensing the rotary plate of parking building.
/ 感應車庫的旋轉盤。

Long Sensing Range Rectangular Inductive Proximity Sensor



◆Shape / 外觀 :			
◆Specifications / 規格表 :			
Output method 輸出模式	NPN N.O.	TSN18-N	TSN18-NK
	NPN N.C.	-	-
	PNP N.O.	TSN18-P	TSN18-PK
	PNP N.C.	-	-
	NPN N.O./N.C.	-	-
	PNP N.O./N.C.	-	-
	SCR N.O.	-	-
	SCR N.C.	-	-
Sensing Surface / 檢測方向		Top surface / 前方	
Standard sensing object / 標準檢測物		Iron 30 x 30 x 1mm	
Sensing distance / 檢出距離		18 mm	
Secure sensing distance / 建議距離		0 to 14.4 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 / 工作溫度範圍		-5 °C ~ + 50 °C	
Protection degree / 防水等級		IP 66	IP 66
Wiring method / 出線方式		Pre-wired Ø5.2 x 2M/3-wires	M12 pigtailed type / M12 接頭15cm 電線式
Weight / 重量		Approx. 125g	Approx. 70g
◆Dimensions/尺寸圖 :		<p>Dimensions: 30mm width, 52.3mm height, 37.1mm sensing distance, 29mm mounting hole offset, 44.5mm total height, 21.8mm LED offset, Ø5.2mm cable diameter, 2M cable length.</p>	<p>Dimensions: 30mm width, 52.3mm height, 37.1mm sensing distance, 29mm mounting hole offset, 44.5mm total height, 21.8mm LED offset, Ø4.75mm M12 connector, 15cm cable length, 27.25mm connector height, 17.7mm mounting hole offset, M12 x 1.0 thread.</p> <p>OUT 4 3 1 2</p>

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◆Shape / 外觀 :



◆Specifications / 規格表 :

Output method / 輸出模式	NPN N.O.	TSN28-N	TSN28-NK
	NPN N.C.	-	-
	PNP N.O.	TSN28-P	TSN28-PK
	PNP N.C.	-	-
	NPN N.O./N.C. PNP N.O./N.C.	-	-
	SCR N.O.	-	-
	SCR N.C.	-	-
Sensing Surface / 檢測方向		Top surface / 前方	
Standard sensing object / 標準檢測物		Iron 40 x 40 x 1mm	
Sensing distance / 檢出距離		28 mm	
Secure sensing distance / 建議距離		0 to 22.4 mm	
Hysteresis / 遲滯		≤ 15 % of sensing distance	
Response time / 反應時間		10ms 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 / 工作溫度範圍		-5 °C ~ + 50°C	
Protection degree / 防水等級		IP 66	IP 66
Wiring method / 出線方式		Pre-wired Ø5.2 x 2M / 3-wires	M12 pigtailed type / M12 接頭15cm 電線式
Weight / 重量		Approx.170g	Approx.118g

◆Dimensions/尺寸圖 :

