

槽型光電開關系列 (Slot photoelectric switch)

Feature/特點:

- ◆ 使用簡單的導線引出式 (標準線長2米);
(Simple-wired (standard cable length 2 m).)
- ◆ 不受外來光干擾影響的變調光型;
(No effect by any else light)
- ◆ 5mm 槽寬6種外型, 適用於各種安裝場合, 標記檢測, 液位檢測等各種應用;
(5mm width 6 appearance, suitable for various installation situations, markers, liquid level detection applications.)
- ◆ 導線可任意延長; (3m\5m\20m\50m最長);
(Wire can be arbitrarily extended 3m, 5m, 20m, 50m up to.)
- ◆ 設計產品均可防水、防油、防塵等功能, 業界首創;
(Designed products are water-proof, oil-proof, dust-proof.)
- ◆ 可定制工作電源DC5V。
(can customize power supply DC5V)

Procurement guide/訂購指南



光纖傳感器
(Fiber Optic Sensors)

光纖管
(Fiber optic tube)

光纖聚焦鏡
(Fiber Focus Lens)

接近開關
(Proximity switches)

光電開關
(Photoelectric switch)

標籤傳感器
(Label sensor)

光幕傳感器
(Light curtain)

激光對準線
(Laser alignment)

壓力傳感器
(Pressure sensor)

磁性開關
(Magnetic switch)

連接器
(Connector)

激光傳感器
(Laser Sensor)

色標傳感器
(Color sensors)

激光位移傳感器
(Laser displacement sensor)

導軌式電源
(Rail Power Supplies)

固態繼電器
(Solid State Relay)

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FPJ系列光電開關
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槽型光電開關
(Groove photoelectric switch)

小槽型光電開關
(Small groove photoelectric switch)

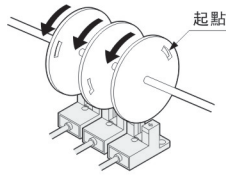
Category 類別	Model 型號	detection mode 檢出方式	detection distance 檢測距離	detect the smallest objects 檢測最小物體	entry cable 出線方式
	FC-SPX302	NPN. NO. NC	5mm	Φ 1mm不透明物體 重複精度0.02mm 可訂做重複精度 0.01mm (Detectable object is Φ1mm, Φ1mm opaque objects Repeatability 0.02mm, Can order repeat accuracy 0.01mm)	Φ2.8×2M/4-wires (4線制)
	FC-SPX302P	PNP. NO. NC			
	FC-SPX302N/15D	NPN. NO. NC			
	FC-SPX302P/15D	PNP. NO. NC			
	FC-SPX303	NPN. NO. NC			
	FC-SPX303P	PNP. NO. NC			
	FC-SPX303N/15D	NPN. NO. NC			
	FC-SPX303P/15D	PNP. NO. NC			
		FC-SPX304	NPN. NO. NC		
		FC-SPX304P	PNP. NO. NC		
		FC-SPX304N/15D	NPN. NO. NC		
		FC-SPX304P/15D	PNP. NO. NC		
		FC-SPX305	NPN. NO. NC		
		FC-SPX305P	PNP. NO. NC		
	FC-SPX305N/15D	NPN. NO. NC			
	FC-SPX305P/15D	PNP. NO. NC			
		FC-SPX306	NPN. NO. NC		
		FC-SPX306P	PNP. NO. NC		
FC-SPX306N/15D		NPN. NO. NC			
FC-SPX306P/15D		PNP. NO. NC			
		FC-SPX307	NPN. NO. NC		
		FC-SPX307P	PNP. NO. NC		
	FC-SPX307N/15D	NPN. NO. NC			
	FC-SPX307P/15D	PNP. NO. NC			
	<p>前方感應 Front sensing</p>	FC-SPX308	NPN. NO. NC		
		FC-SPX308P	PNP. NO. NC		
FC-SPX308N/15D		NPN. NO. NC			
FC-SPX308P/15D		PNP. NO. NC			
<p>上方感應 Top induction</p>		FC-SPX309	NPN. NO. NC		
		FC-SPX309P	PNP. NO. NC		
	FC-SPX309N/15D	NPN. NO. NC			
	FC-SPX309P/15D	PNP. NO. NC			
	<p>槽寬10mm</p>	FC-SPX310	NPN. NO. NC		
		FC-SPX310P	PNP. NO. NC		
FC-SPX310/15D		NPN. NO. NC			
FC-SPX310P/15D		PNP. NO. NC			
<p>槽寬15mm</p>		FC-SPX315	NPN. NO. NC		
		FC-SPX315P	PNP. NO. NC		
	FC-SPX315/15D	NPN. NO. NC			
	FC-SPX315P/15D	PNP. NO. NC			
	<p>槽寬7mm</p>	FU-07GN	NPN. NO. NC		
		FU-07GP	PNP. NO. NC		
FU-07GN/15D		NPN. NO. NC			
FU-07GP/15D		PNP. NO. NC			
<p>槽寬30mm</p>		FU30-N	NPN. NO. NC		
		FU30-P	PNP. NO. NC		
	FU-30-N/15D	NPN. NO. NC			
	FU-30-P/15D	PNP. NO. NC			

※可訂做防水型, 低電壓型 (5V) 等特殊產品。
(Can be made waterproof, low voltage (5V) and other special products)

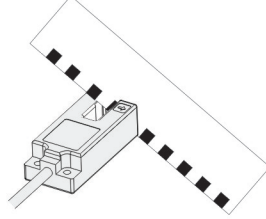
注A: D=感應器上直接帶M8連接器; /15D=引線150mm帶M8連接器;
(Note: D = sensor directly with M8 connector; /15D = Lead 150mm with M8 connector.)

Application/應用實例

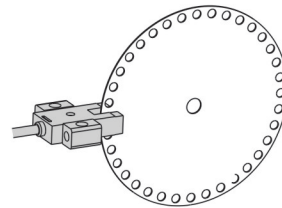
檢測滾動物體的起點
(Detect the starting point of rolling objects)



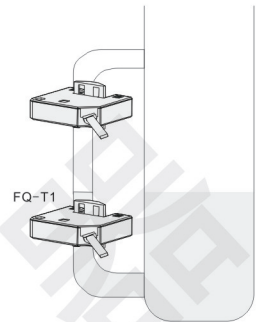
標記檢測
(Markers)



檢測速度
(Detection of speed)



檢測液體高度
(Liquid level detection)



Specifications/規格表

Model/型號									
Sensing type/檢測方式									
(And outlet) 出線方式	(Straight outlet) 直出線	FC-SPX302 FC-SPX302P FC-SPX303 FC-SPX303P	FC-SPX304 FC-SPX304P FC-SPX305 FC-SPX305P	FC-SPX306 FC-SPX306P FC-SPX307 FC-SPX307P	FC-SPX308 FC-SPX308P FC-SPX309 FC-SPX309P	FC-SPX310 FC-SPX310P	FC-SPX315 FC-SPX315P	FU-07N FU-07P	FU30-N FU30-P 大槽型 (Big Groove)
	(Connector) 連接器	FC-SPX302/15D FC-SPX302P/15D FC-SPX303/15D FC-SPX303P/15D	FC-SPX304/15D FC-SPX304P/15D FC-SPX305/15D FC-SPX305P/15D	FC-SPX306/15D FC-SPX306P/15D FC-SPX307/15D FC-SPX307P/15D	FC-SPX308/15D FC-SPX308P/15D FC-SPX309/15D FC-SPX309P/15D	FC-SPX310/15D FC-SPX310P/15D	FC-SPX315/15D FC-SPX315P/15D	FU-07N/15D FU-07P/15D	FU30-N/15D FU30-P/15D 大槽型 (Big Groove)
Detection distance (width)/檢測距離 (槽寬)		5mm		10mm	10mm	15mm	7mm	30mm	
light source/發光源		940um紅外調製光 (940um modulated infrared light)							
Operating voltage/工作電壓		DC10~30V±10% (Ripple P-P: 10% Max)							
Current consumption/消耗電流		15mA Max							
Load current/負載電流		100mA Max at DC 24V							
Output type/輸出模式		N = NPN . NO . NC				P = PNP . NO . NC			
Protection circuit/保護電路		Reversed supply circuit protection, short circuit protection 電源反接保護及輸出短路保護							
Response time/反應時間		0.3 ms Max							
Insulation resistance/隔離抗阻		20MΩmin. (DC500V)							
Dielectric strength/絕緣耐壓		AC1000V 60Hz for 60 Sec							
Roperating temperaturure/工作溫度		-10°C~+45°C (不可結霜、結冰 without icing or condensation)							
Ambient humidity/工作濕度		35%~85% RH 相對濕度 (Relative Humidity)							
Storage temperaturure/儲存溫度		-10°C~+55°C (不可結霜、結冰 without icing or condensation)							
Storage humidity/儲存濕度		35%~95% RH 相對濕度 (Relative Humidity)							
Protection degree/防水等級		IP66							
Material/外觀材質		ABS							
Wiring method/出線方式		Φ2.6×2M/4-wires / Φ4.2×2M/3-wires / Φ4.2×2M/4-wires							
Weight/重量		Approx. 18.5g							

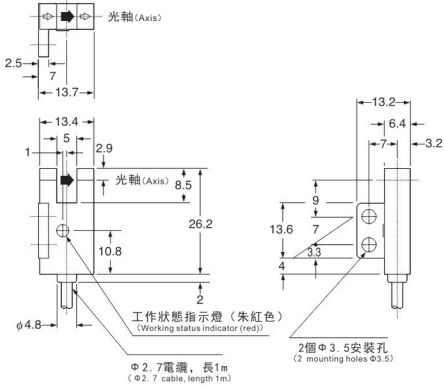
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(Note: D = sensor directly with M8 connector; / 15D = Lead 150mm with M8 connector;)

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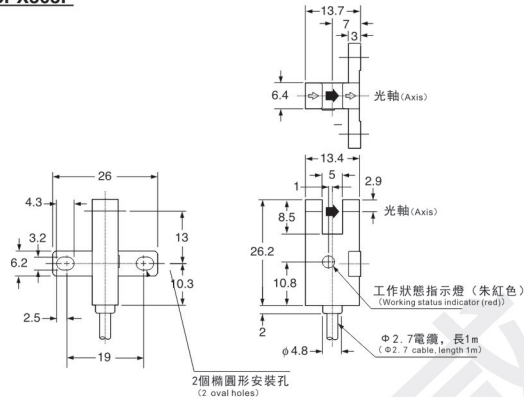
Dimensions/外型尺寸圖 (單位: mm)

直出線 (Direct outlet)

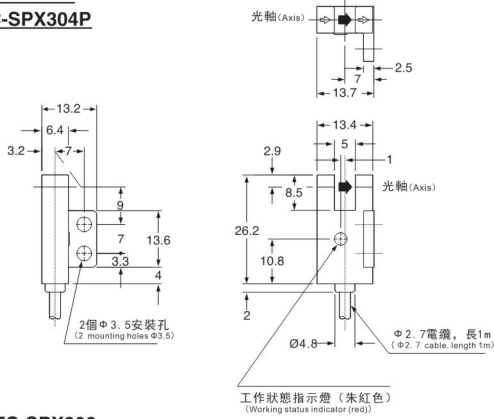
FC-SPX302
FC-SPX302P



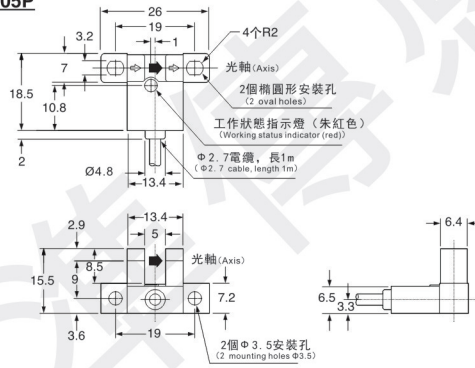
FC-SPX303
FC-SPX303P



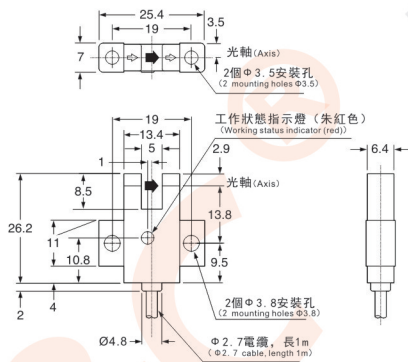
FC-SPX304
FC-SPX304P



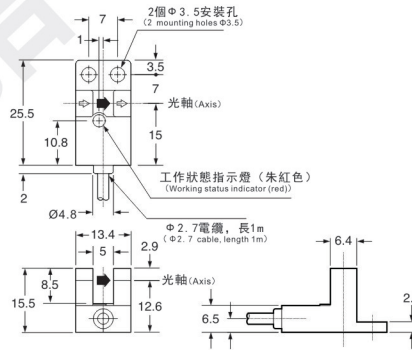
FC-SPX305
FC-SPX305P



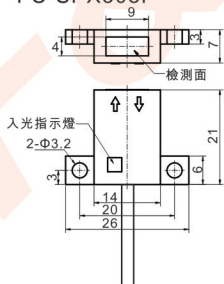
FC-SPX306
FC-SPX306P



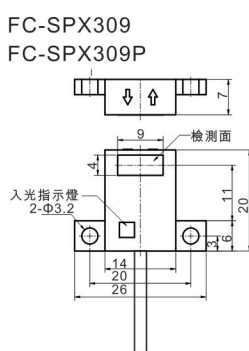
FC-SPX307
FC-SPX307P



FC-SPX308
FC-SPX308P



FC-SPX309
FC-SPX309P



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