

FOTEK

PR series / Three Phase Detector

三相欠逆相偵測器

- Slim compact outline 17.8mm
- High resistance to inverter noise
- PR-K1 & PR-KA for phase loss or reversed detection
- PR-K2 for phase loss or reversed or voltage abnormal detection
- Conformity with IECI/EN 50178 &IEC/EN 61000-6-2 & IEC/EN 61000-6-3

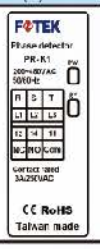
- 堅固超薄外形17.8mm
- 超高抗變頻器高頻干擾
- PR-K1 & PR-KA 可偵測欠相及反相
- PR-K2可偵測欠相及反相及電壓異常
- 符合IECI/EN 50178 &IEC/EN 61000-6-2 & IEC/EN 61000-6-3



Model guiding / 型號索引

Ex. PR – K1 E
1 2 3

1	Series(系列名稱)	「PR」: Phase detector （相位&電壓偵測器）
2	Model(形式)	「K1」: Phase detector / Power 200~480VAC （相位偵測 / 電源 200~480VAC） 「KA」: Phase detector / Power 200~550VAC （相位偵測 / 電源 200~550VAC） 「K2」: Phase &Voltage detector / Power 200~550VAC（相位&電壓偵測/電源 200~550VAC）
3	Output rated current (輸出接點額定電流)	「E」: 10A/250 VAC SPDT 「non」: 3A/250 VAC SPDT

PR-K1(E)/PR-KA(E)	PR-K2(E)
	

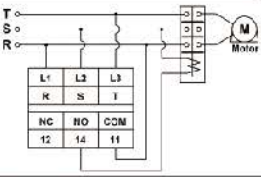
Specification / 規格

Product 產品	Phase Detector				Phase & Voltage Detector	
Detecting function 偵測功能	Phase reversed & loss				Phase reversed & loss & Hi/Lo voltage	
Model 型號	PR-K1	PR-K1E	PR-KA	PR-KAE	PR-K2	PR-K2E
Contact Rated 接點容量	3A/250VAC	10A/250VAC	3A/250VAC	10A/250VAC	3A/250VAC	10A/250VAC
Power Supply 工作電壓	200~ 480VAC / 50/60Hz		200~ 550VAC / 50/60Hz （Switching power）			
Over voltage detecting 高電壓偵測	Non				±20% of operating voltage(adjustable)	
Under voltage detection 低電壓偵測	non				±20% of operating voltage(adjustable)	
ON Delay Time 動作延遲時間	100ms max.(fixed)				0.1~ 10s (adjustable)	
OFF Delay Time 復歸延遲時間	100ms max.(fixed)				0.1~ 10s(adjustable)	
Power ON delay time 送電延遲時間	300ms max					
Wattage 消耗功率	2VA max.					
Output Method 輸出方式	Relay					
Output Status 輸出狀態	Normal ON <RY>					
Dielectric Strength 電介強度	2.5KV / 1 min.					
Insulation Strength 絕緣強度	100 MΩ / 500VDC					
Life of Relay 接點壽命	20 X 10^5 Times					
Circumstance 工作環境	– 25℃ ~ + 80℃ ; 35% ~ 85% RH					
Weight 重量	68g approximated					

Operating voltage selection for PR-K2 (E) / PR-K2 (E) 工作電壓選擇

Rotary switch	Operating voltage 工作電壓	Rotary switch	Operating voltage 工作電壓	Rotary switch	Operating voltage 工作電壓
「0」	200VAC 50/60 Hz	「3」	240VAC 50/60 Hz	「6」	415VAC 50/60 Hz
「1」	220VAC 50/60 Hz	「4」	380VAC 50/60 Hz	「7」	440VAC 50/60 Hz
「2」	230VAC 50/60 Hz	「5」	400VAC 50/60 Hz	「8」	480VAC 50/60 Hz
Note	選擇開關出廠設定位置：「1」; 「9」 = 220VAC 50/60 Hz				

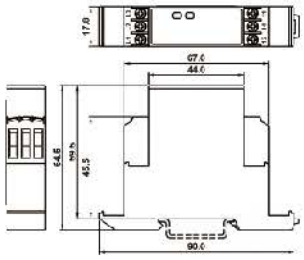
Connection diagram/接線圖



Operating Status / 動作燈號

Product	PR-K1(E) / PR-KA(E)			PR-K2(E)				
Status / LED	Normal	Phase loss	Phase reversed	Normal	Phase loss	Phase reversed	Over Voltage	Under voltage
PW	ON	*	ON	ON	*	ON	ON	ON
RY	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
Over	x	x	x	OFF	OFF	OFF	* *	OFF
Under	x	x	x	OFF	* *	Flicked	OFF	* *
Note	* Loss phase R → PW pilot ON, Loss phase S or T → PW pilot OFF 欠 R 相 →PW 指示燈 ON，欠 S 或 T 相 →PW 指示燈 OFF * * On abnormal status, Over or Under pilot will be flicked till delay time up. Then to be turned on. 在異常狀態，Over 或 Under 指示燈會先閃爍直到延遲時間到才會持續 ON 著。							

Outline dimension/外形尺寸



Notice of use / 使用注意事項

1. Power line is 「L2 (phase R)」& 「L3 (phase T)」, If lost either one, the power pilot will be turned off.
   「L2 (R 相)」& 「L3 (T 相)」是偵測器的電源，欠任何一相時電源灯(PW)就會不亮！
2. May use either a solid wire of 2.5 mm² maximum or a ferrule insulating sleeve pin for the terminal connection.
   The length of the exposed lead wire inserted into the terminal must be less than 8 mm to get dielectric strength enough after connection.
   可以用線頭吃錫線（2.5 mm² 內）或針型端子附絕緣套鎖在偵測器的端子座上，長度不要超過 8mm 才有足夠的電介強度！
3. Tightening torque: 0.6 N-m max.
   端子鎖緊力度：0.6 N-m max.

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Specification may be modified without notice in advance. 規格變更恕不事先通知