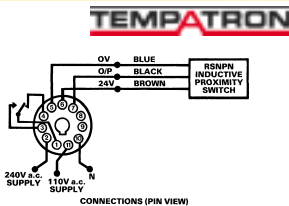


Shaft Rotation Sensing Relay



H = 48, W = 48, D = 120 (overall),
Panel Cut-out = 45 45

An electronic relay that gives an output when the rotation of a machine shaft ceases. Inputs from a 3-wire inductive proximity sensor, determined by the speed of shaft rotation, resets a timer within the sensor and prevents the output contacts from energising.

Potentiometer control for time delay 1 to 30 secs. If a pulse is not received within the set period the sensor energises and an LED indicates the shaft has stopped.

The relay can be front panel or chassis mounted via an 11 pin relay base.

Contact arrangement	SPCO	Scale range	1 to 30s
Contact rating	5A @ 240V ac resistive	Sense time for detection	3ms min
Supply voltage	240V ac or 110V ac 50Hz +10%/-15%	Shaft rotation speed	10,000 rpm max.
Power consumption	<4VA		

Mfrs. List No. FSRST30SLP110/240VAC = 170-961

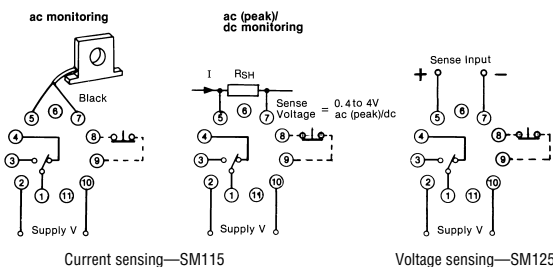
PLC20X

Relay	Order Code	Price Each			
		1+	5+	10+	25+
	170-961				
Sockets		1+	25+	50+	100+
Free socket and cover	.170-963.				
Surface/DIN rail	.103-928.				

1-Phase AC/DC Voltage & AC Current Control
'Type SM115, SM125'



Relay H = 80, W = 35, D = 80
Current transformers H = 16, W = 53, D = 45
170-362/3 170-364 H = 20, W = 95, D = 68



Range of 11 pin sensing relays in an attractive grey moulded plastic Noryl housing for monitoring ac or dc voltages/currents (peak values). The fascia has a built-in output indication LED and a built-in potentiometer which allows setting to the desired trip level. By connecting two pins of the base, latching operation is possible and reset by disconnection.

Hysteresis is 10%, adjustable up to 75% by the addition of a 15kΩ to 1MΩ resistor between pins 8 & 9 of the relay base. Hysteresis increases by decreasing the resistance.

For the current sensing relay, when monitoring ac currents the current transformers detailed may be used. For monitoring dc currents an external resistor is required.

Contact arrangement	SPCO	Coil operating range	90 to 110%
Contact rating, max	10A/2500VA or 250W dc	Transient protection	3kV
Contact material	Silver cadmium oxide	Temperature range	-20° to +50°C

Voltage Sensing Relays — SM125 Series

Scale Range(ac/dc)	Input Resistance	Max Voltage(peak)
0.4 to 4V	8kΩ	50V ac
2 to 20V	50kΩ	100V ac
50 to 500V	1MΩ	500V ac

Current Transformers — M1 Series

Current Range	Max Current
0.5 to 5A rms	20A
2 to 20A rms	50A
10 to 100A rms	250A

Note: 170-350 will not function with a common supply and sensing voltage.

Current Sensing Relays — SM115 Series

Input resistance 8kΩ

PLC21X

Current and Voltage Controls

Single Phase Current Relay



The unit monitors single phase current through a load and changes state when the adjustable trip level is exceeded. Once the current drops below this level, minus hysteresis, the relay changes back unless latching is selected. An adjustable 'On Delay' time value allows motor start up currents to be ignored

- Adjustable fault delay, 0.1 to 3 seconds
- Adjustable start up, delay, 0.1 to 10 seconds
- 'Normal' or 'inverted' operation selectable
- Adjustable hysteresis
- Latching possible

Contact rating	SPDT AC1 250V ac 10A DC1 24V dc 10A AC15 250V ac 6A
Monitoring range	Y2: 5-100mA ac/dc Y3: 50mA-1A AC/DC Y4: 500mA-10A AC/DC Overload 1.5A cont. or 5A for 1s Overload 6A cont. or 17A for 1s Overload 15A cont. or 55A for 1s
Hysteresis	5-50% of trip level
Temp. range	-20°C to +60°C
Power consumption	3VA max

PLC205

Supply Voltage	Order Code	1+	5+	10+
24 Vac	321-3470			
110 Vac	321-3468			
230 Vac	321-3160			

Single Phase Voltage Relay



The units are designed to monitor the voltage of an ac or dc supply. The unit changes state when the voltage exceeds the adjustable trip level. The relay changes again when the voltage falls, below the trip level, minus hysteresis, unless latching is selected.

- Adjustable time delay, 0.1 to 3 seconds
- 'Normal' or 'inverted' operation selectable
- Adjustable hysteresis
- Latching possible

Contact rating:	SPDT AC1 250V ac 10A DC1 24V dc 10A AC15 250V ac 6A
Monitoring range:	Y2: 0.5-10V ac/dc Y3: 3-60V ac/dc Y4: 30-600V ac/dc Overload 30V cont. or 100V for 1s Overload 130V cont. or 450V for 1s Overload 660V cont. or 1000V for 1s
Hysteresis:	5-50% of trip level
Temp. range:	-20°C to +60°C
Power consumption:	3VA max.

PLC208

Supply Voltage	Order Code	1+	5+	10+
24 V ac	321-3146			
110 V ac	321-3134			
230 V ac	321-3122			