imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Temperature Controller

1/16 DIN Sized, Analog-Set Controller Features Dual Scale Dial

- Proportional-derivative (PD) control or ON/OFF control models
- Front panel offset adjustment on PD controllers
- Choose contact or voltage outputs
- Type J or K thermocouples, platinum RTD and thermistor input models
- Fits standard 8-pin round sockets
- Panel mounting hardware included
 Sockets, protective cover, and other
- accessories may be ordered separately

Ordering Information ____

■ TEMPERATURE CONTROLLERS

Add the temperature range and supply voltage to the part number when you order. The minimum scale division is in parentheses. For example, **E5C2-R20K-32° to 392°F-AC120**.

Control	Output	Input type (specify temperature range from choices below)		
type	type	Thermocouple type K	Thermocouple type J	
ON/OFF	Contact	E5C2-R20K	E5C2-R20J	
	Voltage	E5C2-Q20K	E5C2-Q20J	
PD	Contact	E5C2-R40K	E5C2-R40J	
	Voltage	E5C2-Q40K	E5C2-Q40J	
Temperature ranges		32° to 392°F (10)/0° to 200°C (5) 32° to 572°F (20)/0° to 300°C (10) 32° to 752°F (20)/0° to 400°C (10) 32° to 1112°F (50)/0° to 600°C (20) 32° to 1472°F (50)/0° to 800°C (20) 32° to 1832°F (50)/0° to 1000°C (25) 32° to 2192°F (50)/0° to 1200°C (25)	32° to 392°F (10)/0° to 200°C (5) 32° to 572°F (20)/0° to 300°C (10) 32° to 752°F (20)/0° to 400°C (10)	
Supply voltages		110/120 VAC, 50/60 Hz or 220/240 VAC, 50/60 Hz		

Control	Output	Input type (specify the temperature range from choices below)		
type	type	Platinum RTD	Thermistor	
ON/OFF	Contact	E5C2-R20P-DIN	E5C2-R20G	
	Voltage	E5C2-Q20P-DIN	E5C2-Q20G	
PD	Contact	E5C2-R40P-DIN	-	
	Voltage	E5C2-Q40P-DIN	-	
Temperature ranges		-58° to 122°F (5)/-50° to 50°C (2) -4° to 176°F (5)/-20° to 80°C (2) 32° to 122°F (2)/0° to 50°C (1) 32° to 212°F (5)/0° to 100°C (2) 32° to 392°F (10)/0° to 200°C (5) 32° to 572°F (20)/0° to 300°C (10) 32° to 752°F (20)/0° to 400°C (10)	-58° to 122°F (5)/-50° to 50°C (2) 32° to 212°F (5)/0° to 100°C (2) 122° to 302°F (5)/50° to 150°C (2) 212° to 392°F (5)/100° to 200°C (2) 302° to 572°F (10)/150° to 300°C (5)	
Supply voltages		110/120 VAC, 50/60 Hz or 220/240 VAC, 50/60 Hz, or 24 VDC		



E5C2

■ ACCESSORIES

Description		
Sockets	Bottom surface or track mounting, top screw terminals	P2CF-08
	Back mounting, for use with Y92F-30 mounting adapter supplied, bottom screw temrinals	P3G-08
	Back mounting plug type, for use with Y92F-30 mounting adapter supplied	US08
Protective cover	Hard plastic cover protects against accidental resetting.	Y92A-48B
Mounting track	DIN rail, 50 cm (1.64 ft) length	PFP-50N
	DIN rail, 1 m (3.28 ft) length	PFP-100N
	End plate	PFP-M
	Spacer	PFP-S

■ REPLACEMENT PART

Description	Part number
Panel mounting bracket; one supplied with each controller	Y92F-30

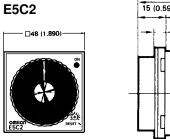
Specifications_____

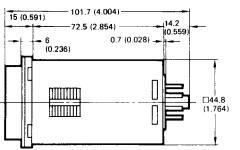
output T	tage voltage sumption Number Type Hysteresi Service lif	Relay Voltage s	5 VDC, 10 mA with short-circ	oltage ve load), switching capacity	E5C2-DDP-DIN Platinum RTD	E5C2-DDDG Thermistor			
Supply volt Operating Power cons Control N output T	tage voltage sumption Number Type Hysteresi Service lif	Relay Voltage s	100/120 VAC, 50/60 Hz or 22 90 to 110% of rated supply v Approx. 2 VA One output, built in SPDT, 3 A, 250 VAC (resistin 5 VDC, 10 mA with short-circ	20/240 VAC, 50/60 Hz oltage ve load), switching capacity					
Operating v Power cons Control N output 7	voltage sumption Number Type Hysteresi Service lit	Relay Voltage s	Approx. 2 VA One output, built in SPDT, 3 A, 250 VAC (resistiv 5 VDC, 10 mA with short-circ	ve load), switching capacity	-6.000 \/A				
Control N output 7 F	Number Type Hysteresi Service lit	Relay Voltage s	One output, built in SPDT, 3 A, 250 VAC (resistin 5 VDC, 10 mA with short-circ		-(000)/A				
output T	Type Hysteresi Service lit	Voltage s	SPDT, 3 A, 250 VAC (resistiv 5 VDC, 10 mA with short-circ						
	Hysteresi Service lit	Voltage s	5 VDC, 10 mA with short-circ			One output, built in			
S	Service lit	s			SPDT, 3 A, 250 VAC (resistive load), switching capacity of 330 VA				
S	Service lit		0.5% max of full cools (fixed	5 VDC, 10 mA with short-circuit protection					
		e	10.5 % max. Or full scale (lixed	0.5% max. of full scale (fixed)					
Alarm outp		-	100,000 electrical operations minimum for relay output						
Alarm outp			10 million mechanical operations minimum for relay output						
·			Not available						
	Setting accuracy		±2% maximum of full scale						
	Туре		ON/OFF (E5C2-202) or PE	D (E5C2-❑40❑)					
modes F	Proportional band		3% of full scale (fixed)						
	Reset		3% minimum of full scale (variable); front panel potentiometer adjustment						
	Control p	eriod	Approx. 20 seconds, where r	atio of ON to OFF is 1:1					
Memory protection			Not available						
Indicators			Operation Indicator (red LED)						
Materials			Plastic case						
Mounting			Fits 1/16 DIN panel cutouts; includes panel mounting adapter Y92F-30						
Connections			Terminals for standard 8-pin round connectors						
Weight			Approx. 200 g (7 oz.)						
Enclosure			Front panel IEC IP40, NEMA 4 with optional cover Y92A-48N						
ratings			Housing IEC IP20						
Approvals		Terminals IEC IP00 UL Recognized, File No. E68481, approved control output rating 1.5 A, 250 VAC							
Αρριοναίδ	CSA Certified, File No. LR59623, approved control output rating 1.5 A, 250 VAC								
		Other	SEV. File No. D4.11/634						
Ambient		Use	-10° to 55°C (14° to 131°F)						
temperatur	re	Storage	-25° to 65°C (-13° to 149°F)						
Humidity		otorago	35 to 85% RH						
Insulation resistance		e	$20 \text{ M}\Omega$ minimum at 500 VDC						
Dielectric strength			2,000 VAC, 50/60 Hz for 1 minute						
	Mechanical		10 to 55 Hz 0.75 mm (0.03 in) in X, Y, and Z directions for 2 hours each						
	Malfunction		2 to 55 Hz, 2 G, in X, Y, and Z directions for 10 minutes each						
	Mechanical		300 m/s ² in 6 directions, 3 times each						
	Malfunction		200 m/s ² in 6 directions, 3 times each						

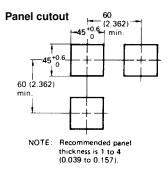
Dimensions _

Unit: mm (inch)

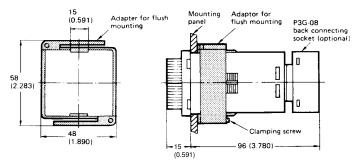
■ TEMPERATURE CONTROLLER





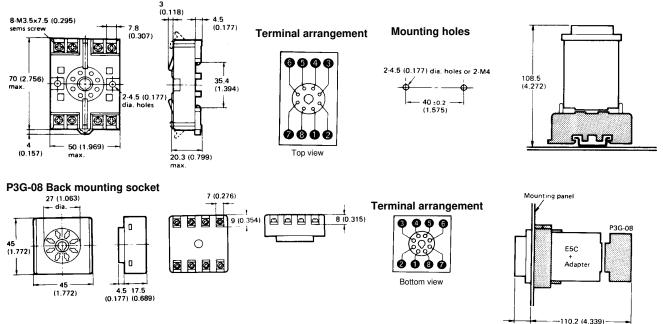


E5C2 Temperature Controller Mounted in Y92F-30 Panel Mounting Adapter (supplied)



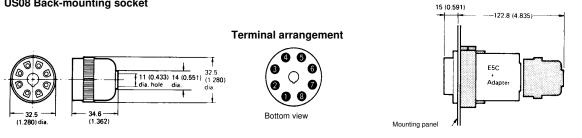
SOCKETS

P2CF-08 Bottom surface or track mounting socket

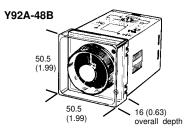


15 (0.591)

US08 Back-mounting socket



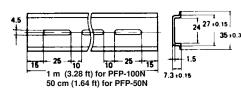
■ PROTECTIVE COVER

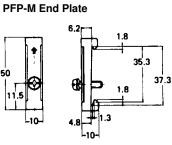


Hard plastic cover Y92A-48B snaps onto the front of the temperature controller to prevent accidental resetting. It also shields the front panel from dirt and water. The cover is intended for use in areas where unusual service conditions do not exist.

MOUNTING TRACK AND ACCESSORIES

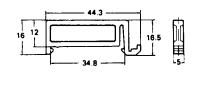
PFP-100N/PFP-50N DIN Rail





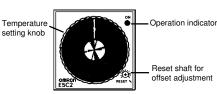
50

PFP-S Spacer

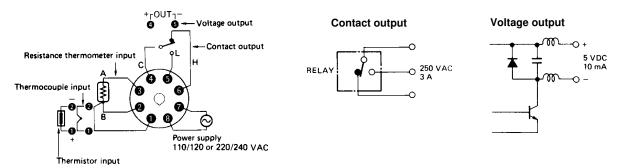


Nomenclature

E5C2



Connections





OMRON CANADA, INC.

885 Milner Avenue Scarborough, Ontario M1B 5V8 **416-286-6465**

Cat. No. GC TC12